

The MIT Press **SPRING 2022**

Dear Friends and Readers,

The MIT Press has deep roots in Kendall Square, from our very first offices in building E19 (MIT-speak for the large administrative building on the corner of Main and Ames streets) and our original bookstore near the T stop on Main Street. Kendall has become one of the world's most vital innovation hubs and the official portal to MIT itself, and this year marks not only our return, but also our 60th anniversary. With our elegant new bookstore at 314 Main Street and 12th floor offices at 1 Broadway with dazzling views of Boston and Cambridge, we are part of a vibrant post-pandemic awakening. Viewed from Kendall Square, the future looks very bright indeed.



Amy Brand

It is therefore fitting that our Spring 2022 catalog leads with books that shed historical light on this moment, including Robert Buder's *Where Futures Converge: Kendall Square and the Making of a Global Innovation Hub*; Karen Weintraub and Michael Kuchta's *Born in Cambridge: 400 Years of Ideas and Innovators*; and Maia Weinstock's biography of an MIT science icon, *Carbon Queen: The Remarkable Life of Nanoscience Pioneer Mildred Dresselhaus*.

Several titles on this list are equally true to our roots and our drive to cross disciplinary boundaries and eschew orthodoxies. Our legacy of bold, socially-engaged publishing is reflected in books like *The Most Human Right: Why Free Speech Is Everything* by Eric Heinze; and Mary Ellen Iskenderian's *There's Nothing Micro about a Billion Women: Making Finance Work for Women*, on how microloans empower women and promote sustainable, inclusive economic growth.

And our mission to publish the best boundary-defying works is evident in Michelle Drouin's new book on the impact of modern technologies on human touch and belonging (*Out of Touch: How to Survive an Intimacy Famine*), and Julio Ottino and Bruce Mau's *The Nexus: Augmented Thinking for a Complex World* on why today's complex problems demand a radically new way of thinking—one in which art, technology, and science converge.

Read, be inspired, and feel free to send us 60th anniversary cheer, at happy60mitp@mit.edu!

Amy Brand, PhD

Director and Publisher, The MIT Press

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The MIT Press gratefully acknowledges Books On Books (www.books-on-books.com) for sponsoring the planting of a tree through World Land Trust (www.worldlandtrust.org) in honor of each new book in the Spring 2022 catalog.

Where Futures Converge

Kendall Square and the Making of a Global Innovation Hub

Robert Buderl

The evolution of the most innovative square mile on the planet: the endless cycles of change and reinvention that created today's Kendall Square.

Kendall Square in Cambridge, Massachusetts, has been called “the most innovative square mile on the planet.” It’s a life science hub, hosting Biogen, Moderna, Pfizer, Takeda, and others. It’s a major tech center, with Google, Microsoft, IBM, Amazon, Facebook, and Apple all occupying big chunks of pricey office space. Kendall Square also boasts a dense concentration of startups, with leading venture capital firms conveniently located nearby. And of course, MIT is just down the block. In *Where Futures Converge*, Robert Buderl offers the first detailed account of the unique ecosystem that is Kendall Square, chronicling the endless cycles of change and reinvention that have driven its evolution.

Buderl, who himself has worked in Kendall Square for the past twenty years, tells fascinating stories of great innovators and their innovations that stretch back two centuries. Before biotech and artificial intelligence, there was railroad car innovation, the first long-distance telephone call, the Polaroid camera, MIT’s once secret, now famous Radiation Laboratory, and much more. Buderl takes readers on a walking tour of the square and talks to dozens of innovators, entrepreneurs, urban planners, historians, and others. He considers Kendall Square’s limitations—it’s “gentrification gone rogue,” by one description, with little affordable housing, no pharmacy, and a scarce middle class—and its strengths: the “human collisions” that spur innovation.

What’s next for Kendall Square? Buderl speculates about the next big innovative enterprises and outlines lessons for aspiring innovation districts. More important, he asks how Kendall Square can be both an innovation hub and a diversity, equity, and inclusion hub. There’s a lot of work still to do.

Robert Buderl is an author, journalist, and entrepreneur. He is the author of *Engines of Tomorrow*, *The Invention That Changed the World*, and other books, former Editor-in-Chief of *Technology Review*, and founder of the media company Xconomy.

history | science

May | 7 x 10, 368 pp. | 49 illus.

US \$34.95T/\$45.95 CAN cloth

978-0-262-04651-0



Born in Cambridge

400 Years of Ideas and Innovators

Karen Weintraub and Michael Kuchta

Anne Bradstreet, W.E.B. Du Bois, gene editing, and Junior Mints: cultural icons, influential ideas, and world-changing innovations from Cambridge, Massachusetts.

Cambridge, Massachusetts is a city of “firsts”: the first college in the English colonies, the first two-way long-distance call, the first legal same-sex marriage. In 1632, Anne Bradstreet, living in what is now Harvard Square, became the first published poet in British North America, and in 1959, Cambridge-based Carter’s Ink marketed the first yellow Hi-liter. W.E.B. Du Bois,

Julia Child, Yo-Yo Ma, and Noam Chomsky all lived in Cambridge at various points in their lives. *Born in Cambridge* tells these stories and many others, chronicling cultural icons, influential ideas, and world-changing innovations that all came from one city of modest size across the Charles River from Boston. More than 200 illustrations connect stories to Cambridge locations.

Cambridge is famous for being home to MIT and Harvard, and these institutions play a leading role in many of these stories—the development of microwave radar, for example, the invention of napalm, and Robert Lowell’s poetry workshop. But many have no academic connection, including Junior Mints, Mount Auburn Cemetery (the first garden cemetery), and the public radio show *Car Talk*. It’s clear that Cambridge has not only a genius for invention, but a genius for reinvention, and authors Karen Weintraub and Michael Kuchta consider larger lessons from Cambridge’s success stories—about urbanism, the roots of innovation, and nurturing the next generation of good ideas.

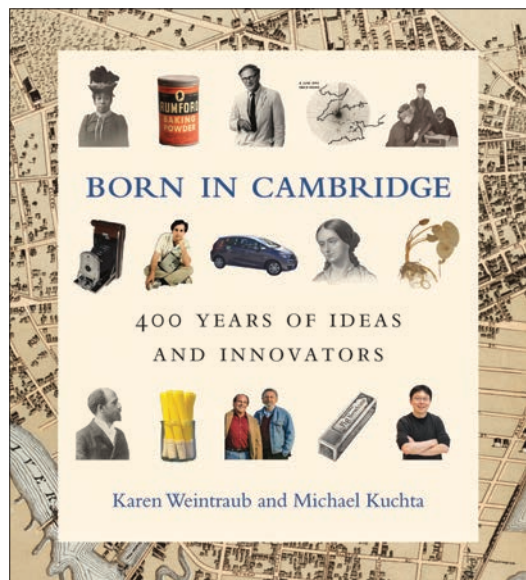
Karen Weintraub is a journalist, now working as health reporter at *USA Today*. Her work has appeared in the *New York Times*, the *Washington Post*, *Scientific American*, and *STAT* and she is the coauthor of *The Autism Revolution* and *Fast Mind*. **Michael Kuchta** is an architect and campus planner.

history

March | 8 x 9, 416 pp. | 197 illus.

US \$39.95T/\$53.95 CAN cloth

978-0-262-04680-0



The Polaroid Model 95A Land Camera, introduced in 1954 as an updated version of the original instant photography system launched in 1948. Source: Collection of the authors.



Carter’s Highlighting Markers were still marketed by the Avery Dennison Company in the early twenty-first century, though in a different form than in the 1960s. Photo by the authors.

Carbon Queen

The Remarkable Life of Nanoscience Pioneer
Mildred Dresselhaus

Maia Weinstock

The life of trailblazing physicist Mildred Dresselhaus, who expanded our understanding of the physical world.

As a girl in New York City in the 1940s, Mildred “Millie” Dresselhaus was taught that there were only three career options open to women: secretary, nurse, or teacher. But sneaking into museums, purchasing three-cent copies of *National Geographic*, and devouring books on the history of science ignited in Dresselhaus (1930–2017) a passion for inquiry. In *Carbon Queen*, science writer Maia Weinstock describes how, with curiosity and drive, Dresselhaus defied expectations and forged a career as a pioneering scientist and engineer. Dresselhaus made highly influential discoveries about the properties of carbon and other materials and helped reshape our world in countless ways—from electronics to aviation to medicine to energy. She was also a trailblazer for women in STEM and a beloved educator, mentor, and colleague.

Her path wasn’t easy. Dresselhaus’s Bronx childhood was impoverished. Her graduate advisor felt educating women was a waste of time. But Dresselhaus persisted, finding mentors in Nobel Prize-winning physicists Rosalyn Yalow and Enrico Fermi. Eventually, Dresselhaus became one of the first female professors at MIT, where she would spend nearly six decades. Weinstock explores the basics of Dresselhaus’s work in carbon nanoscience accessibly and engagingly, describing how she identified key properties of carbon forms, including graphite, buckyballs, nanotubes, and graphene, leading to applications that ranged from lighter, stronger aircraft to more energy-efficient and flexible electronics.

Maia Weinstock is an editor, writer, and producer of science and children’s media whose work has appeared in *Scientific American*, *Discover*, SPACE.com, BrainPOP, and Scholastic’s *Science World*. Deputy Editorial Director at MIT News and a lecturer at MIT on the history of women in STEM, she created LEGO’s “Women of NASA.”

biography | science

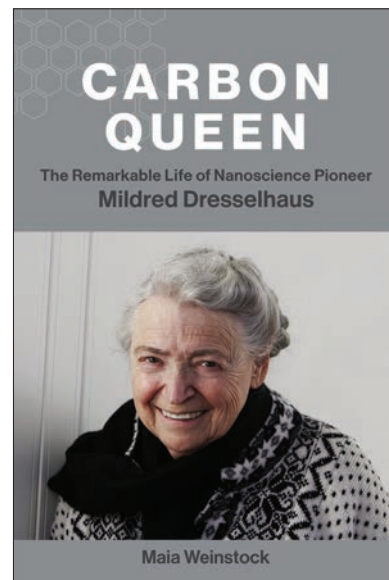
March | 5 1/4 x 8, 320 pp. | 30 color illus., 22 b&w illus.

US \$24.95T/\$33.95 CAN cloth

978-0-262-04643-5

“*Carbon Queen* is a true delight: a powerful story, perfectly told, which is equal parts inspiring and informative. Weinstock’s words effortlessly capture Dresselhaus’s enthusiasm, tenacity, and genius. A fitting tribute to a scientific legend.”

—**Jess Wade, physicist, Imperial College London; author of *Nano: The Spectacular Science of the Very (Very) Small***



THE REAL WORLD OF COLLEGE



WHAT
HIGHER EDUCATION
IS AND WHAT IT
CAN BE

WENDY FISCHMAN
AND
HOWARD GARDNER

The Real World of College

What Higher Education Is and What It Can Be

Wendy Fischman and Howard Gardner

Why higher education in the United States has lost its way, and how universities and colleges can focus sharply on their core mission.

For *The Real World of College*, Wendy Fischman and Howard Gardner analyzed in-depth interviews with more than 2,000 students, alumni, faculty, administrators, parents, trustees, and others, which were conducted at ten institutions ranging from highly selective liberal arts colleges to less selective state schools. What they found challenged characterizations in the media: students are not preoccupied by political correctness, free speech, or even the cost of college. They are most concerned about their GPA and their resumes; they see jobs and earning potential as more important than learning. Many say they face mental health challenges, fear that they don't belong, and feel a deep sense of alienation. Given this daily reality for students, has higher education lost its way? Fischman and Gardner contend that US universities and colleges must focus sharply on their core educational mission.

Fischman and Gardner, both recognized authorities on education and learning, argue that higher education in the United States has lost sight of its principal reason for existing: not vocational training, not the provision of campus amenities, but to increase what Fischman and Gardner call "higher education capital"—to help students think well and broadly, express themselves clearly, explore new areas, and be open to possible transformations. Fischman and Gardner offer cogent recommendations for how every college can become a community of learners who are open to change as thinkers, citizens, and human beings.

Wendy Fischman is a Project Director at the Harvard Graduate School of Education and lead author of *Making Good: How Young People Cope with Moral Dilemmas at Work*. **Howard Gardner** is Hobbs Research Professor of Cognition and Education at the Harvard Graduate School of Education and the author of *A Synthesizing Mind: A Memoir from the Creator of Multiple Intelligences Theory* (MIT Press) and many other books.

education

March | 5 1/4 x 8, 400 pp. | 1 illus.

US \$34.95T/\$45.95 CAN cloth

978-0-262-04653-4

"In this bold and visionary book, Fischman and Gardner offer transformational solutions to the grave problems facing higher education today. The book's compelling recommendations are supported by their definitive study of contemporary college life."

—William Damon, Professor of Education, Stanford University and Director of the Stanford Center on Adolescence; author of *The Path to Purpose*

"Wendy Fischman and Howard Gardner distill decades of experience into this bracing, often surprising book about what college is, and is for. With rigor and wisdom, they burn away myths and challenge every American to recommit to truly higher learning."

—Eric Liu, CEO, Citizen University

The Nexus

Augmented Thinking for a Complex World—The New Convergence of Art, Technology, and Science

Julio Mario Ottino

with **Bruce Mau**

Why today's complex problems demand a radically new way of thinking—one in which art, technology, and science converge.

Today's complex problems demand a radically new way of thinking—one in which art, technology, and science converge to expand our creativity and augment our insight. Creativity must be combined with the ability to execute; the innovators of the future will have to understand this balance and manage such complexities as climate change and pandemics. The place of this convergence is the Nexus. In this provocative and visually striking book, Julio Mario Ottino and Bruce Mau offer a guide for navigating the intersections of art, technology, and science.

The Nexus brings together word and image to prepare us—individuals and organizations alike—for the challenges and opportunities of the twenty-first century. Compelling historic examples illuminate the present, from the Renaissance, when the domains were one, to the twentieth century, with intense, collective creative outpourings from places as different as the Bauhaus and Bell Labs. Leaders must be able to grasp simplicity in complexity and complexity in simplicity—and embrace the powerful idea of complementarity, where opposing extremes coexist and our thinking expands. Innovation needs more than managing. Managers use maps; leaders develop compasses.

Julio Mario Ottino is an academic thought leader, author, artist, and internationally recognized researcher whose work has been featured in *Nature*, *Science*, and *Scientific American*. A Guggenheim Fellow, he is the founding Codirector of Northwestern University's Institute on Complex Systems. **Bruce Mau** is a designer, artist, entrepreneur, author, and educator. He has designed and coauthored books with, among others, Rem Koolhaas (*S,M,L,XL*). For many years, he designed all of the books published by Zone Books, the Getty Research Institute, and the Gagosian Gallery.

design | business

April | 8 x 9, 360 pp. | 120 color illus., 30 b&w illus.

US \$44.95T/\$59.95 CAN cloth

978-0-262-04634-3

AUGMENTED THINKING FOR
A COMPLEX WORLD

THE NEXUS

THE NEW CONVERGENCE OF
ART, TECHNOLOGY & SCIENCE

JULIO MARIO OTTINO
with BRUCE MAU



The New Fire

War, Peace, and Democracy in the Age of AI

Ben Buchanan and Andrew Imbrie

AI is revolutionizing the world. Here's how democracies can come out on top.

Artificial intelligence is revolutionizing the modern world. It is ubiquitous—in our homes and offices, in the present and most certainly in the future. Today, we encounter AI as our distant ancestors once encountered fire. If we manage AI well, it will become a force for good, lighting the way to many transformative inventions. If we deploy it thoughtlessly, it will advance beyond our control. If we wield it for destruction, it will fan the flames of a new kind of war, one that holds democracy in the balance. As AI policy experts Ben Buchanan and Andrew Imbrie show in *The New Fire*, few choices are more urgent—or more fascinating—than how we harness this technology and for what purpose.

The new fire has three sparks: data, algorithms, and computing power. These components fuel viral disinformation campaigns, new hacking tools, and military weapons that once seemed like science fiction. To autocrats, AI offers the prospect of centralized control at home and asymmetric advantages in combat. It is easy to assume that democracies, bound by ethical constraints and disjointed in their approach, will be unable to keep up. But such a dystopia is hardly preordained. Combining an incisive understanding of technology with shrewd geopolitical analysis, Buchanan and Imbrie show how AI can work for democracy. With the right approach, technology need not favor tyranny.

Ben Buchanan is Assistant Teaching Professor at the Georgetown University School of Foreign Service, where he is also a Senior Faculty Fellow and Director of the CyberAI Project at the Center for Security and Emerging Technology. He is the author of *The Hacker and the State* and *The Cybersecurity Dilemma*. **Andrew Imbrie** is Senior Fellow at Georgetown's Center for Security and Emerging Technology. The author of *Power on the Precipice*, he served as a member of the policy planning staff and speechwriter to Secretary John Kerry at the US Department of State and as a professional staff member on the Senate Foreign Relations Committee.

political science | technology

March | 6 x 9, 344 pp. | 8 illus.

US \$29.95T/\$39.95 CAN cloth
978-0-262-04654-1

"The New Fire is an essential guide to the age of artificial intelligence written by two of its leading scholars. Ben Buchanan and Andrew Imbrie help the reader understand the incredible promises and daunting perils of AI, while exploring the dramatic impact it could have on geopolitics in the decades ahead."

—Madeleine Albright, former US Secretary of State

"The New Fire provides a brilliant, exceedingly readable examination of the impact of artificial intelligence on all imaginable endeavors from war and peace to politics. It is equal parts highly informative, wonderfully descriptive, and more than a bit terrifying!"

—General David Petraeus, US Army (Ret.), former Commander of the Surge in Iraq, US Central Command, and Coalition and US Forces in Afghanistan and former Director of the CIA

"Mixing technical depth, history, ethical philosophy, and penetrant analysis, Buchanan and Imbrie offer a comprehensive perspective on the promise and perils of machine learning and artificial intelligence."

—Vint Cerf, Internet Pioneer

Out of Touch

How to Survive an Intimacy Famine

Michelle Drouin

A behavioral scientist explores love, belongingness, and fulfillment, focusing on how modern technology can both help and hinder our need to connect.

Millions of people around the world are not getting the physical, emotional, and intellectual intimacy they crave. Through the wonders of modern technology, we are connecting with more people more often than ever before; but are these connections what we long for? Pandemic isolation has made us even more alone. In *Out of Touch*, Professor of Psychology Michelle Drouin investigates what she calls our intimacy famine, exploring love, belongingness, and fulfillment and considering why relationships carried out on technological platforms may leave us starving for physical connection. Drouin puts it this way: when most of our interactions are through social media, we are taking tiny hits of dopamine rather than the huge shots of oxytocin that an intimate in-person relationship would provide.

Drouin explains that intimacy is not just sex—although of course sex is an important part of intimacy. But how important? Drouin reports on surveys that millennials (perhaps distracted by constant Tinder-swiping) have less sex than previous generations. She discusses pandemic puppies, professional cuddlers, the importance of touch, “desire discrepancy” in marriage, and the value of friendships. Online dating, she suggests, might give users too many options; and the internet facilitates “infidelity-related behaviors.” Some technological developments will help us develop and maintain intimate relationships—our phones, for example, can be bridges to emotional support. Some, on the other hand, might leave us out of touch. Drouin explores both of these possibilities.

Michelle Drouin is a behavioral scientist and expert on technology, relationships, couples, and sexuality whose work has been featured or cited in the *New York Times*, CBS News, CNN, NPR, and other media outlets. She is Professor of Psychology at Purdue University–Fort Wayne and Senior Research Scientist at the Parkview Mirro Center for Research and Innovation.

psychology

February | 5 1/4 x 8, 288 pp. | 4 illus.

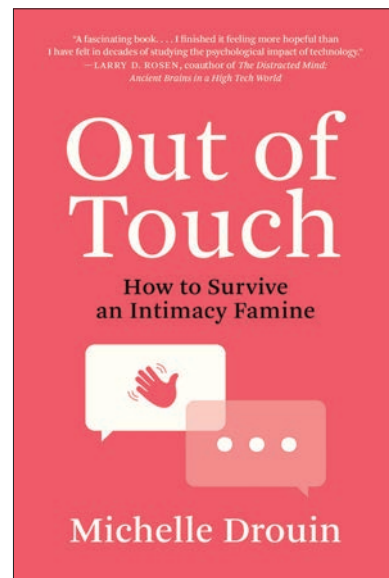
US \$27.95T/\$36.95 CAN cloth
978-0-262-04667-1

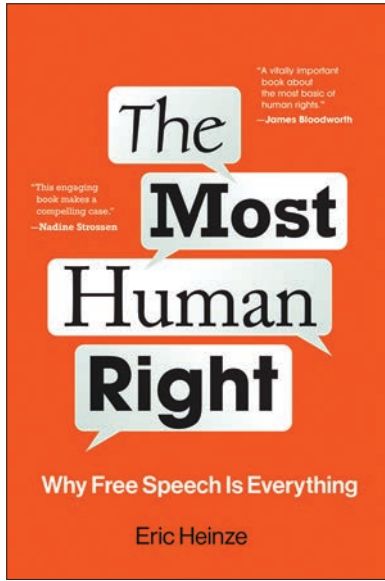
“A fascinating book. . . . I finished it feeling more hopeful than I have felt in decades of studying the psychological impact of technology.”

—**Larry D. Rosen, coauthor of *The Distracted Mind: Ancient Brains in a High Tech World***

“A fascinating book that examines how modern technology can assist in our pursuit to meet human needs for love, connection, and fulfillment. Weaving personal anecdotes with scientific research, it is full of rich wisdom for how to survive and thrive in a world of advancing technologies and a pandemic.”

—**Susan Sprecher, Distinguished Professor, Illinois State University**





The Most Human Right

Why Free Speech Is Everything

Eric Heinze

A bold, groundbreaking argument by a world-renowned expert that unless we treat free speech as the fundamental human right, there can be no others.

What are human rights? Are they laid out definitively in the UN’s Universal Declaration of Human Rights or the US Bill of Rights? Are they items on a checklist—dignity, justice, progress, standard of living, health care, housing? In *The Most Human Right*, Eric Heinze explains why global human rights systems have failed. International organizations constantly report on how governments manage human goods, such as fair trials, humane conditions of detention, healthcare, or housing. But to appease autocratic regimes, experts have ignored the primacy of free speech. Heinze argues that goods become rights only when citizens can claim them publicly and fearlessly: free speech is the fundamental right, without which the very concept of a “right” makes no sense.

Heinze argues that throughout history countless systems of justice have promised human goods. What, then, makes human rights different? What must human rights have that other systems have lacked? Heinze revisits the origins of the concept, exploring what it means for a nation to protect human rights, and what a citizen needs in order to pursue them. He explains how free speech distinguishes human rights from other ideas about justice, past and present.

Eric Heinze is Professor of Law and Humanities in the University of London and an internationally recognized authority on free speech and human rights. He is the author of *Hate Speech and Democratic Citizenship*, *The Concept of Injustice*, and other books. He is a frequent guest speaker on radio, television, and online, and his opinion pieces have appeared in the *Guardian*, the *Washington Post*, and many other publications.

political science

April | 6 x 9, 200 pp. | 2 illus.

US \$27.95T/\$36.95 CAN cloth

978-0-262-04645-9

There's Nothing Micro about a Billion Women

Making Finance Work for Women

Mary Ellen Iskenderian

Why it takes more than microloans to empower women and promote sustainable, inclusive economic growth.

Nearly one billion women have been completely excluded from the formal financial system. Without even a bank account in their own names, they lack the basic services most of us take for granted—secure ways to save money, pay bills, and get credit. Exclusion from the formal financial system means they are economic outsiders, unable to benefit from, or contribute to, economic growth. Microfinance has been hailed as an economic lifeline for women in developing countries—but, as Mary Ellen Iskenderian shows in this book, it takes more than microloans to empower women and promote sustainable, inclusive economic growth.

Iskenderian, who leads a nonprofit that works to give women access to the financial system, argues that the banking industry should view these one billion “unbanked” women not as charity cases but as a business opportunity: a lucrative new market of small business owners, heads of households, and purchasers of financial products and services. Iskenderian shows how financial inclusion can be transformative for the lives of women in developing countries, describing, among other things, the informal moneylenders and savings clubs women have relied on, the need for both financial and digital literacy (and access) as mobile phones become a means of banking, and the importance of women’s property rights. She goes on to make the business case for financial inclusion, exploring the ways that financial institutions are adapting to help women build wealth, access capital, and manage risks. Banks can do the right thing—and make money while doing so—and all of us can benefit.

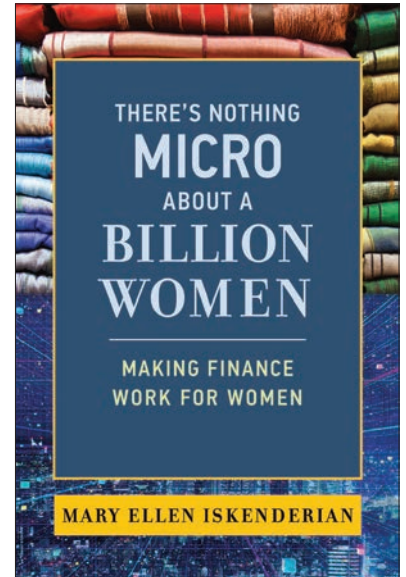
Mary Ellen Iskenderian is President and CEO of Women’s World Banking, a global nonprofit devoted to giving more low-income women access to financial tools and resources they need for both security and prosperity.

business | economics

March | 6 x 9, 232 pp.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04644-2





Power On!

Jean J. Ryoo and Jane Margolis

illustrated by Charis JB

A diverse group of teenage friends learn how computing can be personally and politically empowering and why all students need access to computer science education.

This lively graphic novel follows a diverse group of teenage friends as they discover that computing can be fun, creative, and empowering. Taylor, Christine, Antonio, and Jon seem like typical young teens—they communicate via endless texting, they share jokes, they worry about starting high school, and they have each other’s backs. But when a racially-biased artificial intelligence system causes harm in their neighborhood, they suddenly realize that tech isn’t as neutral as they thought it was. But can an algorithm be racist? And what is an algorithm, anyway?

In school, they decide to explore computing classes, with mixed results. One class is only about typing. The class that Christine wants to join is full, and the school counselor suggests that she take a class in “Tourism and Hospitality” instead. (Really??) But Antonio’s class seems legit, Christine finds an after-school program, and they decide to teach the others what they learn. By summer vacation, all four have discovered that computing is both personally and politically empowering.

Interspersed through the narrative are text boxes with computer science explainers and inspirational profiles of people of color and women in the field (including Katherine Johnson of *Hidden Figures* fame). *Power On!* is an essential read for young adults, general readers, educators, and anyone interested in the power of computing, how computing can do good or cause harm, and why addressing underrepresentation in computing needs to be a top priority.

young adult fiction | graphic novels

April | 6 3/4 x 10, 144 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54325-5



Jean J. Ryoo (she/her) is an avid reader of manga and manhwa, as well as an educational researcher/writer committed to ensuring all students experience meaningful and empowering learning, both in and out of school. **Jane Margolis** is a UCLA educational researcher and author who has been a longtime advocate for ending inequality and segregation in computer science education, for which she won the 2016 White House Champion of Change award. **Charis JB** (she/her) is a Black-biracial Latinx artist whose work often centers around issues related to race and gender equality, sexual identity, class, and more.





What is Computer Science, anyway?

Computer science isn't just typing or learning how to make spreadsheets. Computer science is about the study of computers, including both hardware and software, and how they can be applied to solving real-world problems. Computer scientists use creativity and critical thinking to design innovations.

Computer science is changing every field: it is used to mix beats and make all genres of music, create special effects and animation in films/TV, create medicine and vaccines or help doctors and nurses decide on treatments for patients, help athletes monitor their health and skills during training on and off the field, collect data and information for scientists working anywhere from forests to labs, improve how people learn in school, and more. Everyone needs to learn computer science because it affects everything we touch and do. Computing determines how we understand what is going on in the world.

Using computers to develop vaccines: In computational immunology, scientists use mathematical models that can predict how part of a new virus will be recognized by the immune system. This helps with development and testing.

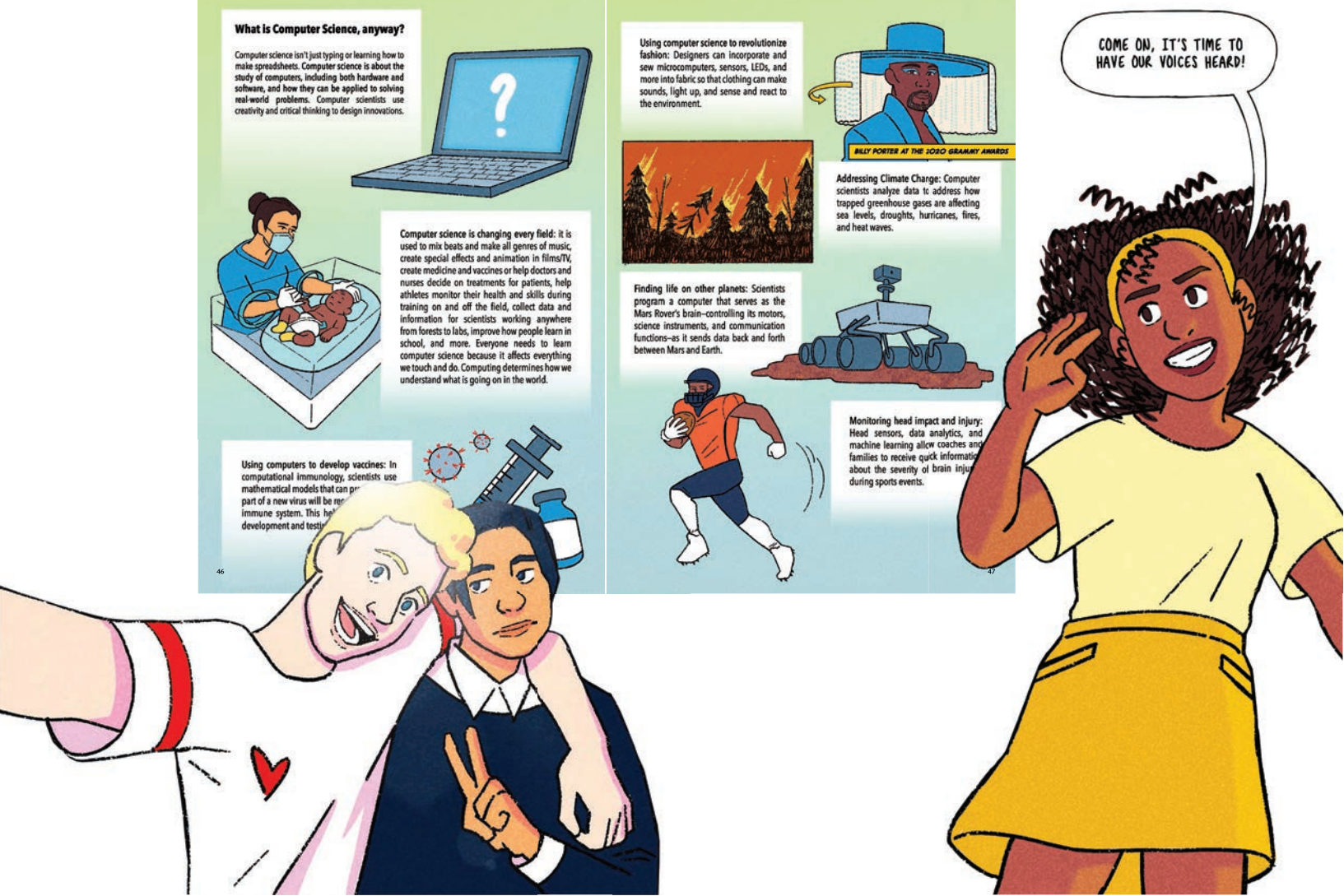
Using computer science to revolutionize fashion: Designers can incorporate and sew microcomputers, sensors, LEDs, and more into fabric so that clothing can make sounds, light up, and sense and react to the environment.

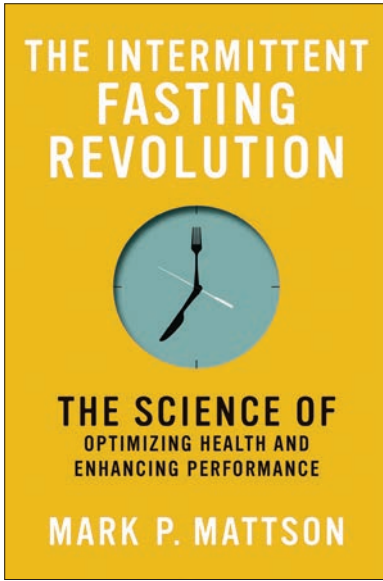
BILLY PORTER AT THE 2020 GRAMMY AWARDS

Addressing Climate Change: Computer scientists analyze data to address how trapped greenhouse gases are affecting sea levels, droughts, hurricanes, fires, and heat waves.

Finding life on other planets: Scientists program a computer that serves as the Mars Rover's brain—controlling its motors, science instruments, and communication functions—as it sends data back and forth between Mars and Earth.

Monitoring head impact and injury: Head sensors, data analytics, and machine learning allow coaches and families to receive quick information about the severity of brain injury during sports events.





The Intermittent Fasting Revolution

The Science of Optimizing Health and Enhancing Performance

Mark P. Mattson

How intermittent fasting can enhance resilience, improve mental and physical performance, and protect against aging and disease.

Most of us eat three meals a day with a smattering of snacks because we think that's the normal, healthy way to eat. This book shows why that's not the case. The human body and brain evolved to function well in environments where food could be obtained only intermittently. When we look at the eating patterns of our distant ancestors, we can see that an intermittent fasting eating pattern is normal—and eating three meals a day is not. In *The Intermittent Fasting Revolution*, prominent neuroscientist Mark Mattson shows that intermittent fasting is not only normal but also good for us; it can enhance our ability to cope with stress by making cells more resilient. It also improves mental and physical performance and protects against aging and disease.

Intermittent fasting is not the latest fad diet; it doesn't dictate food choice or quantity. It doesn't make money for the pharmaceutical, processed food, or health care industries. Intermittent fasting is an eating pattern that includes frequent periods of time with little or negligible amounts of food. It is often accompanied by weight loss, but, Mattson says, studies show that its remarkable beneficial effects cannot be accounted for by weight loss alone.

Mattson—whose pioneering research uncovered the ways that the brain responds to fasting and exercise—explains how thriving while fasting became an evolutionary adaptation. He describes the specific ways that intermittent fasting slows aging; reduces the risk of diseases, including obesity, Alzheimer's, and diabetes; and improves both brain and body performance. He also offers practical advice on adopting an intermittent fasting eating pattern as well as information for parents and physicians.

Mark P. Mattson, currently Adjunct Professor of Neuroscience at Johns Hopkins University, was previously Chief of the Laboratory of Neurosciences at the National Institute on Aging in Baltimore.

health and fitness

February | 5 1/4 x 8, 248 pp. | 20 illus.

US \$27.95T/\$36.95 CAN cloth

978-0-262-04640-4

“An excellent book, full of very valuable information to improve health and longevity from one of the pioneers and leaders of the “intermittent fasting revolution.”

—**Valter D. Longo, Director of the University of Southern California Longevity Institute, author of the international bestseller *The Longevity Diet***

“This timely book, which includes both historical antecedents as well as the very latest research, is an authoritative and yet accessible introduction to intermittent fasting. Dr. Mattson has done more than any other scientist to illuminate this critically important topic and we are fortunate to have this succinct synopsis of decades of research.”

—**Ken Ford, Founder and Director, Institute for Human and Machine Cognition**

The Parent Trap

How to Stop Overloading Parents and Fix Our Inequality Crisis

Nate G. Hilger

How parents have been set up to fail, and why helping them succeed is the key to achieving a fair and prosperous society.

Few people realize that raising children is the single largest industry in the United States. Yet this vital work receives little political support, and its primary workers—parents—labor in isolation. If they ask for help, they are made to feel inadequate; there is no centralized organization to represent their interests; and there is virtually nothing spent on research and development to help them achieve their goals. It's almost as if parents are set up to fail—and the result is lost opportunities that limit children's success and make us all worse off. In *The Parent Trap*, Nate Hilger combines cutting-edge social science research, revealing historical case studies, and on-the-ground investigation to recast parenting as the hidden crucible of inequality.

Parents are expected not only to care for their children but to help them develop the skills they will need to thrive in today's socioeconomic reality—but most parents, including even the most caring parents on the planet, are not trained in skill development and lack the resources to get help. How do we fix this? The solution, Hilger argues, is to ask less of parents, not more. America should consider child development a public investment with a monumental payoff. We need programs inspired by Medicare—call them Familycare—to drive this investment. To make it happen, parents need to become an interest group that can wield its political power on behalf of children—who will always be the largest bloc of disenfranchised people in this country.

The Parent Trap exposes the true costs of our society's unrealistic expectations around parenting and lays out a profoundly hopeful blueprint for reform.

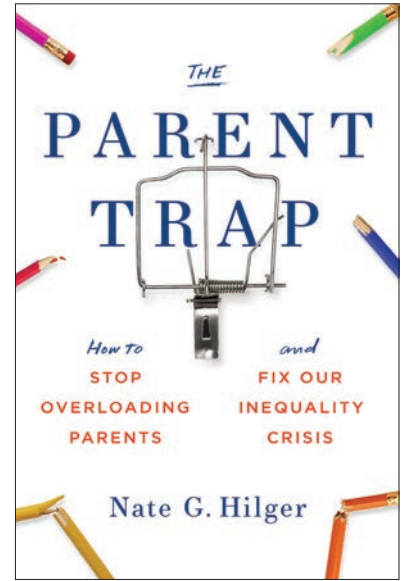
Nate G. Hilger is an economist and data scientist in Silicon Valley. His work on the origins of success in children has been featured in the *New York Times*, the *Washington Post*, and other media outlets.

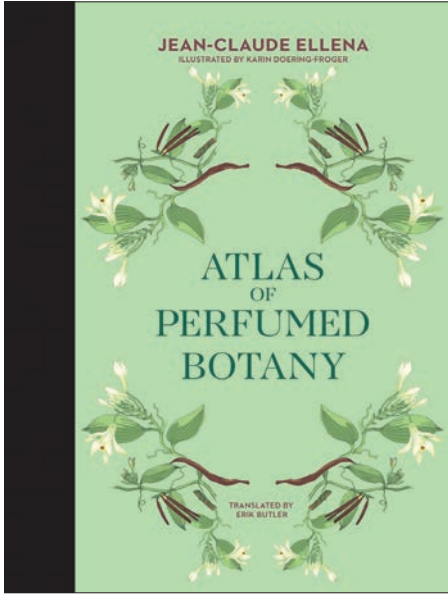
current affairs | politics

April | 6 x 9, 304 pp. | 8 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04668-8





Atlas of Perfumed Botany

Jean-Claude Ellena

illustrated by Karin Doering-Froger

translated by Erik Butler

A cartography of fragrance that charts the botany and geography of perfume composition.

For perfume makers, each smell carries with it a multitude of associations and impressions that must be carefully analyzed and understood before the sum of all its parts emerges. All perfumers have their own idiosyncratic methods, drawn from their individual olfactory experiences, for classifying fragrances. In *Atlas of Perfumed Botany*, virtuoso perfumer Jean-Claude Ellena leads readers on a poetic, geographic, and botanical journey of perfume discovery. Ellena offers a varied and fascinating cartography of fragrances, tracing historical connections and cultural exchanges. Full-page entries on plants ranging from bergamot to lavender are accompanied by detailed and vivid full-color botanical illustrations.

Jean-Claude Ellena, the "nose" of the luxury brand Hermès for fourteen years, has been the Creative Director of Fragrance at the perfume house Le Couvent since 2019. **Karin Doering-Froger**, a faculty member at the Atelier de Sèvres, has illustrated many novels and travel guides, including *Atlas de cités perdues* and *Atlas de contrées rêvées*.

nature

April | 7 x 9 1/2, 168 pp. | 36 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04673-2



Illustrations by Karin Doering-Froger from *Atlas of Perfumed Botany*



Sexus Animalis

There Is Nothing Unnatural in Nature

Emmanuelle Pouydebat

illustrated by Julie Terrazzoni

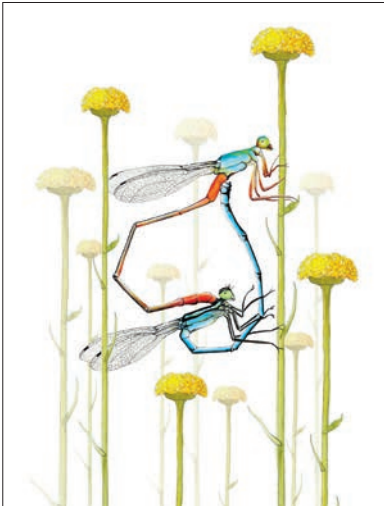
translated by Erik Butler

An illustrated guide to the amazingly multifarious sex lives of animals, from elephants and bonobos to butterflies and bedbugs.



There may be nothing unnatural in nature, but nature still encompasses much that seems fantastically strange—the amazingly multifarious sex lives of animals, for example. *Sexus Animalis* tells us everything we never dreamed we wanted to know about the reproductive systems, genital organs, and sexual practices of animals, from elephants (who masturbate with their trunks) to fruit flies (who produce spermatozoa twenty times their size). In the animal kingdom we find heterosexual, lesbian, gay, and bisexual behavior, as well as monogamy, polygamy, and polyandry, not to mention fellatio and many varieties of erections and orgasms.

Emmanuelle Pouydebat, a natural history researcher, tells us about gutter penises, double penises, detachable penises, and corkscrew-shaped penises, as well as vaginas built for storage and clitorises with thorns. (Perhaps unsurprisingly, there’s more data about animal penises than animal vaginas and clitorises.) She explains how the ostrich achieves an erection, describes the courtship of pygmy chameleons, and recounts how the female short-beaked echidna chooses a partner. She reports on sexual assault among animals—there’s evidence that half of female mallards are sexually assaulted—and explains how masturbation helps squirrels avoid sexually transmitted diseases. It seems that animals have been composing their own *Kama Sutra* throughout the ages. Striking color illustrations accompany the text.



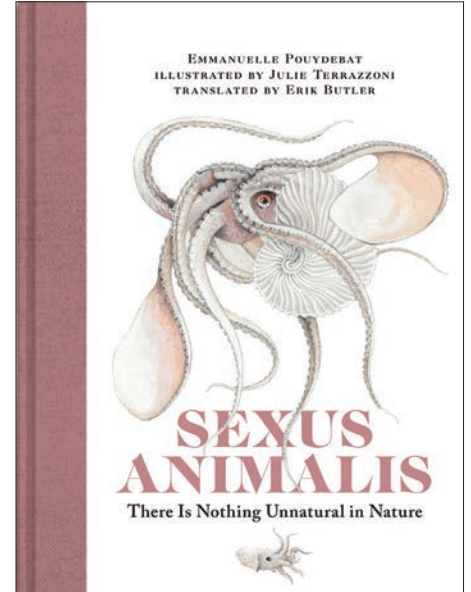
Emmanuelle Pouydebat is a permanent researcher employed by the CNRS (French National Center for Scientific Research), working at the Muséum National d’Histoire Naturelle in Paris. She is the author of *Atlas of Poetic Zoology* (MIT Press).

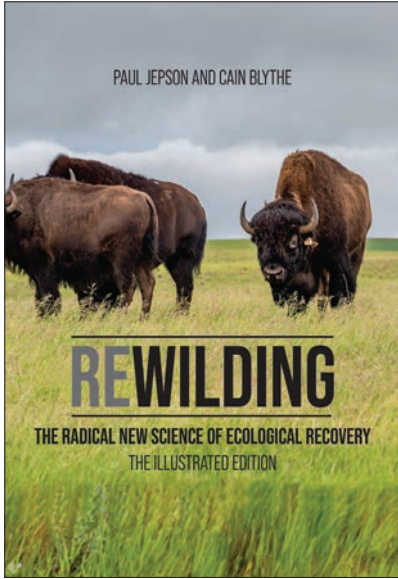
nature | science

March | 7 x 9 1/2, 184 pp. | 65 color illus., 14 b&w illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04658-9





Rewilding

The Radical New Science of Ecological Recovery
The Illustrated Edition

Paul Jepson and Cain Blythe

How rewilding has transformed the conservation movement, combining radical scientific insights with practical innovations.

Progressive scientists and conservation professionals are pursuing a radical new approach to restoring ecosystems: rewilding. By recovering the ripple effect generated by the interactions among plant and animal species and natural disturbances, rewilding seeks to repair ecosystems by removing them from human engineering and reassembling guilds of megafauna from a mix of surviving wild and feral species and de-domesticated breeds, including elk, bison, and feral horses. Written by two leaders in the field, this book offers an abundantly illustrated guide to the science of rewilding. It shows in fascinating detail the ways in which ecologists are reassembling ecosystems that allow natural interactions rather than human interventions to steer their environmental trajectories.

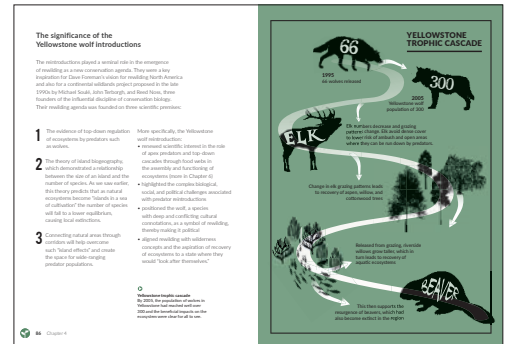
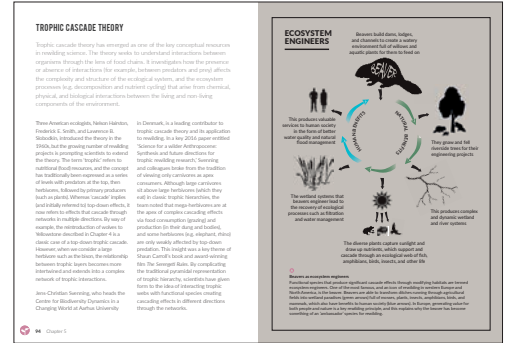
Rewilding looks into a past in which industrialization and globalization downgraded grasslands, describes current projects designed to recover self-willed ecosystems, and envisions the future with ten predictions for a rewilded planet. It shows how rewilding is shaking up conservation science and policy, bringing new hope and renewed purpose to efforts to revive essential ecological processes. Color illustrations capture moments of beauty in nature and offer enlightening infographics and visualizations.

Paul Jepson is Nature Recovery Lead with Ecosulis Ltd. and former director of the University of Oxford's MSc in Biodiversity, Conservation, and Management. During a forty-year career in conservation, he has worked in the UK, Brazil, and countries in Asia. **Cain Blythe**, Managing Director of Ecosulis Ltd., specializes in habitat restoration, particularly through the adoption of natural regeneration techniques, nature recovery, and the use of technology in conservation.

science | nature
April | 6 1/2 x 9, 224 pp. | 110 color illus.

US \$29.95/\$39.95 CAN cloth
978-0-262-04676-3

For sale in North America only



Star Power

ITER and the International Quest for Fusion Energy

Alain Bécoulet

translated by Erik Butler

foreword by Dennis G. Whyte

A concise and accessible explanation of the science and technology behind the domestication of nuclear fusion energy.

Nuclear fusion research tells us that the Sun uses one gram of hydrogen to make as much energy as can be obtained by burning eight tons of petroleum. If nuclear fusion—the process that makes the stars shine—could be domesticated for commercial energy production, the world would gain an inexhaustible source of energy that neither depletes natural resources nor produces greenhouse gases. In *Star Power*, Alain Bécoulet offers a concise and accessible primer on fusion energy, explaining the science and technology of nuclear fusion and describing the massive international scientific effort to achieve commercially viable fusion energy.

Bécoulet draws on his work as Head of Engineering at ITER (International Thermonuclear Experimental Reactor) to explain how scientists are trying to “put the sun in a box.” He surveys the history of nuclear power, beginning with post–World War II efforts to use atoms for peaceful purposes and describes how energy is derived from fusion, explaining that the essential principle of fusion is based on the capacity of nucleons (protons and neutrons) to assemble and form structures (atomic nuclei) in spite of electrical repulsion between protons, which all have a positive charge. He traces the evolution of fusion research and development, mapping the generation of electric current through fusion.

The ITER project marks a giant step in the development of fusion energy, with the potential to demonstrate the feasibility of a nuclear fusion reactor. *Star Power* offers an introduction to what may be the future of energy production.

Alain Bécoulet is Head of Engineering for ITER, an international nuclear fusion research and engineering demonstration project in France. Previously, he was Director of the French Magnetic Fusion Research Institute.

science | physics

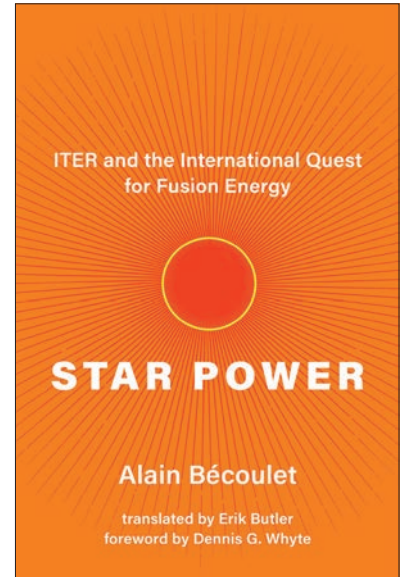
February | 5 1/4 x 8, 216 pp. | 10 illus.

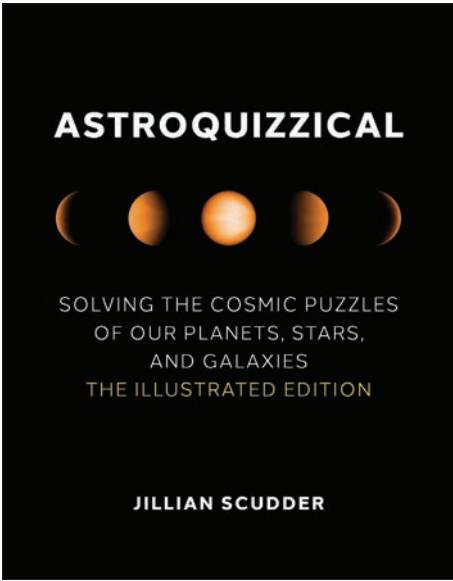
US \$28.95 / \$38.95 CAN cloth

978-0-262-04626-8

“This book is a welcome overview of the role of hydrogen fusion in our transition to a zero-carbon emission world. Making this topic accessible to all is no small feat, but Alain Bécoulet has done just that!”

—**Bernard Bigot, Director-General, ITER Organization**





Astroquizzical

Solving the Cosmic Puzzles of Our Planets, Stars, and Galaxies

The Illustrated Edition

Jillian Scudder

Exploring the family tree of the cosmos, from humans on Earth to stars and galaxies to the first atoms of the Big Bang; with striking color illustrations.

Looking up at the night sky, we see not only stars twinkling in their constellations and planets caught mid-orbit but our cosmic family tree. We are here on Earth because billions of years ago the Big Bang created the atoms that, over unimaginable periods of time, formed the stars and galaxies. Generations of stars that burned, exploded, or collided long before our planet was formed created the carbon of our bodies and the iron in our blood. In *Astroquizzical*, astrophysicist Jillian Scudder takes readers on a curiosity-driven journey through outer space, traveling back in time from Earth to the stars and galaxies to the cosmic explosions of the Big Bang.

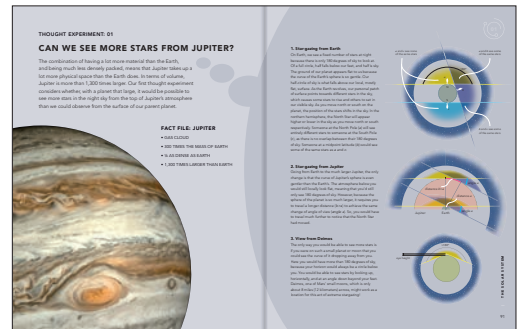
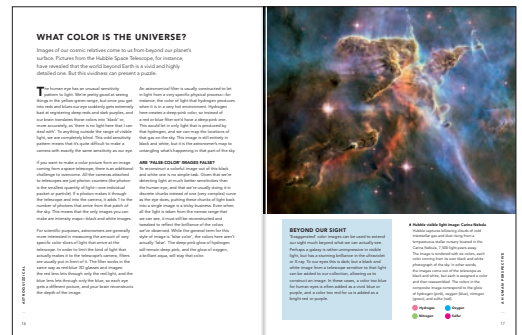
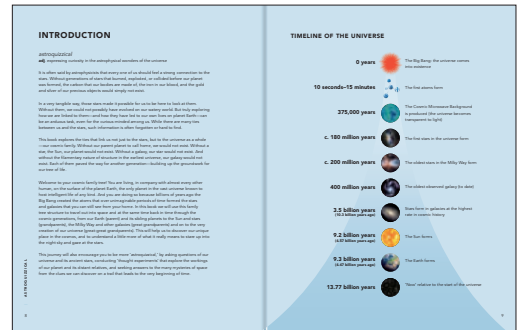
Scudder proceeds—astroquizzically—question by question, answering and explaining such queries as “What color is the universe?,” “Do all planets spin the same way?,” and “How many galaxies are there?” Along the way, she proposes a series of thought experiments, including “What would happen if we split the sun in half?” and “What happens to time dilation at the speed of light?” She covers meteors, the aurora, and the Moon (Earth’s cosmic companion); Jupiter’s stripes and Pluto’s mountains; red dwarfs, brown dwarfs, and white dwarfs; the deaths of stars and the abundance of galaxies; and much more. Striking color images illustrate astrophysical marvels.

Jillian Scudder, an astrophysicist, is Assistant Professor of Physics at Oberlin College. Her writing on science has appeared in *Forbes*, *Medium*, *The Conversation*, the *Independent*, and *Quartz*.

science
February | 7 1/2 x 9 3/4, 224 pp. | 100 illus.

US \$29.95/\$39.95 CAN cloth
978-0-262-04672-5

For sale in North America only



An Infinity of Worlds

Cosmic Inflation and the Beginning of the Universe

Will Kinney

What happened before the primordial fire of the Big Bang: a theory about the ultimate origin of the universe.

In the beginning was the Big Bang: an unimaginably hot fire almost fourteen billion years ago in which the first elements were forged. The physical theory of the hot nascent universe—the Big Bang—was one of the most consequential developments in twentieth-century science. And yet it leaves many questions unanswered: Why is the universe so big? Why is it so old? What is the origin of structure in the cosmos? In *An Infinity of Worlds*, physicist Will Kinney explains a more recent theory that may hold the answers to these questions and even explain the ultimate origins of the universe: cosmic inflation, before the primordial fire of the Big Bang.

Kinney argues that cosmic inflation is a transformational idea in cosmology, changing our picture of the basic structure of the cosmos and raising unavoidable questions about what we mean by a scientific theory. He explains that inflation is a remarkable unification of inner space and outer space, in which the physics of the very large (the cosmos) meets the physics of the very small (elementary particles and fields), closing in a full circle at the first moment of time. With quantum uncertainty its fundamental feature, this new picture of cosmic origins introduces the possibility that the origin of the universe was of a quantum nature.

Kinney considers the consequences of eternal cosmic inflation. Can we come to terms with the possibility that our entire observable universe is one of infinitely many, forever hidden from our view?

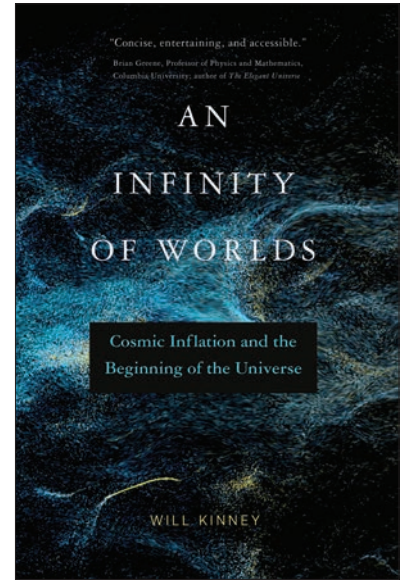
Will Kinney is Professor in the Department of Physics at the University at Buffalo, the State University of New York.

science | physics

March | 5 1/4 x 8, 264 pp. | 42 illus.

US \$24.95T/\$33.95 CAN cloth

978-0-262-04648-0



"In concise, entertaining and accessible language, *An Infinity of Worlds* ushers readers to the forefront of cosmology. Will Kinney takes on some of the most controversial issues of current research, and treats them with uncommon subtlety and nuance. An excellent read."

—**Brian Greene, Professor of Physics and Mathematics, Columbia University; author of *The Elegant Universe***

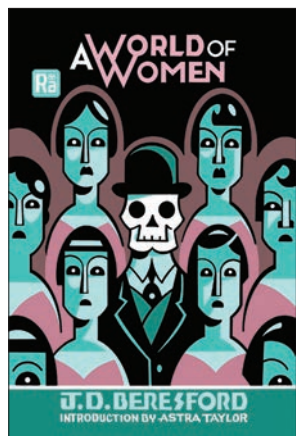
A World of Women

J. D. Beresford

introduction by Astra Taylor

When a plague wipes out most of the world's male population and civilization crumbles, women struggle to build an agrarian community in the English countryside.

Imagine a plague that brings society to a standstill by killing off most of the men on Earth. The few men who survive descend into lechery and atavism. Meanwhile, a group of women (accompanied by one virtuous male survivor) leave the wreckage of London to start fresh, establishing a communally run agrarian outpost. But their sexist society hasn't permitted most of them to learn any useful skills—will the commune survive their first winter? This is the bleak world imagined in 1913 by English writer



J. D. Beresford—one that has particular resonance for the planet's residents in the 2020s. This edition of *A World of Women* offers twenty-first century readers a new look at a neglected classic.

Beresford introduces us to the solidly bourgeois, prim and proper, Gosling family. As once-bustling London shuts down—Parliament closes, factories grind to a halt, nature reclaims stone and steel—the paterfamilias Mr. Gosling adopts a life of libertinism while his daughters in the countryside struggle to achieve a radically transformed and improved, egalitarian and feminist future.

J. D. Beresford (1873–1947) was a British writer of science fiction and horror. His novel *The Hampdenshire Wonder* was much influenced by H. G. Wells, and in 1914 Beresford published the first critical study of Wells.

science fiction

March | 5 1/4 x 7 3/4, 344 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54335-4

Radium Age series

Radium Age Series

Under the direction of Joshua Glenn, the MIT Press's Radium Age is reissuing notable proto-science fiction stories from the underappreciated era between 1900 and 1935, with new contributions by historians, science journalists, and science fiction authors.

The World Set Free

H. G. Wells

introduction by Sarah Cole

afterword by Joshua Glenn

In a novel written on the eve of World War I, H. G. Wells imagines a war “to end all wars” that begins in atomic apocalypse but ends in an enlightened utopia.

Writing in 1913, on the eve of World War I's mass slaughter and long before World War II's mushroom cloud finale, H. G. Wells imagined a war that begins in atomic apocalypse but ends in a utopia of enlightened world government. Set in the 1950s, Wells's neglected novel *The World Set Free* describes a conflict so horrific that it actually is the war that ends war.

Wells—the first to imagine a “uranium-based bomb”—offers a prescient description of atomic warfare that renders cities unlivable for years: “Whole blocks of buildings were alight and burning fiercely, the trembling, ragged flames looking pale and ghastly and attenuated in comparison with the full-bodied crimson glare beyond.” Drawing on discoveries by physicists and chemists of the time, Wells foresees both a world powered by clean, plentiful atomic energy—and the destructive force of the neutron chain reaction.

With a cast of characters including Marcus Karenin, the moral center of the narrative; Firmin, a proto-Brexiteer; and Egbert, the visionary young British monarch, Wells dramatizes a world struggling for sanity. Wells's supposedly happy ending—a planetary government presided over by European men—may not appeal to contemporary readers, but his anguish at the world's self-destructive tendencies will strike a chord.

H. G. Wells (1866–1946) was a prolific and best-selling author of novels, short stories, and social commentary. Among his best-known works are *The Time Machine*, *The Invisible Man*, *The War of the Worlds*, and *The Island of Doctor Moreau*.

science fiction

May | 5 1/4 x 7 3/4, 282 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54336-1

Radium Age series



The Clockwork Man

E. V. Odle

introduction by Annalee Newitz

In the first-ever novel about a cyborg, a machine-enhanced man from a multiverse of the far future visits 1920s England.

In 1920s England, a strange being crashes a village cricket game. After some glitchy, jerky attempts to communicate, this creature reveals that he is a machine-enhanced human from a multiverse thousands of years in the future. The mechanism implanted in his skull has malfunctioned, sending him tumbling through time onto the green grass of the cricket field. Apparently in the future, at the behest of fed-up women, all men will be controlled by an embedded “clockwork,” camouflaged with hats and wigs.

Published in 1923, *The Clockwork Man*—the first cyborg novel—tells the story of this odd time traveler’s visit.

Spending time with two village couples about to embark upon married life, the Clockwork Man warns that because men of the twentieth century are so violent, sexist, and selfish, in the not-too-distant future they will be banned from physical reality. They will inhabit instead a virtual world—what we’d now call the Singularity—in which their every need is met, but love is absent. Will the Clockwork Man’s tale lead his new friends to reconsider technology, gender roles, sex, and free will?

Overshadowed in its own time by Karel Čapek’s sensational 1923 play *R.U.R.*, about a robot uprising, *The Clockwork Man* is overdue for rediscovery.

E. V. Odle (1890–1942) was a Bloomsbury-adjacent magazine editor in London.

“Edwin Vincent Odle’s ominous, droll, and unforgettable *The Clockwork Man* is a missing link between Lewis Carroll and John Sladek or Philip K. Dick.”

—Jonathan Lethem, author of *The Arrest*

science fiction

May | 5 1/4 x 7 3/4, 208 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54343-9

Radium Age series

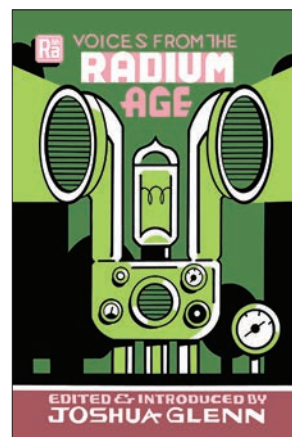


Voices from the Radium Age

edited and introduced by Joshua Glenn

A collection of science fiction stories from the early twentieth century by authors ranging from Arthur Conan Doyle to W. E. B. Du Bois.

This collection of science fiction stories from the early twentieth century features work by the famous (Arthur



Conan Doyle, creator of Sherlock Holmes), the no-longer famous (“weird fiction pioneer” William Hope Hodgson), and the should-be-more famous (Bengali feminist Rokeya Sakhawat Hossain). It offers stories by writers known for concerns other than science fiction (W. E. B. Du Bois, author of *The Souls of Black Folk*) and by writers known only for pulp science fiction (the prolific Neil R. Jones).

These stories represent what volume and series editor Joshua Glenn has dubbed “the Radium Age”—the period when science fiction as we know it emerged as a genre. The collection shows that nascent science fiction from this era was prescient, provocative, and well written.

Readers will discover, among other delights, a feminist utopia predating Charlotte Perkins Gilman’s *Herland* by a decade in Hossain’s story, “Sultana’s Dream”; a world in which the human population has retreated underground, in E. M. Forster’s “The Machine Stops”; an early entry in the Afrofuturist subgenre in Du Bois’s last-man-on-Earth tale, “The Comet”; and the first appearance of Jones’s cryopreserved Professor Jameson, who despairs at Earth’s wreckage but perseveres—in a metal body—to appear in thirty-odd more stories.

Joshua Glenn, writer and semiotician, is the editor of the Radium Age series and the publisher of HiLobrow. He is the coauthor several books, including *The Idler’s Glossary* and *Unbored: The Essential Field Guide to Serious Fun*.

science fiction

March | 5 1/4 x 7 3/4 224 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54337-8

Radium Age series



Design after Capitalism

Transforming Design Today for an Equitable Tomorrow

Matthew Wizinsky

How design can transcend the logics, structures, and subjectivities of capitalism: a framework, theoretical grounding, and practical principles.

The designed things, experiences, and symbols that we use to perceive, understand, and perform our everyday lives are much more than just props. They directly shape how we live. In *Design after Capitalism*, Matthew Wizinsky argues that the world of industrial capitalism that gave birth to modern design has been dramatically transformed.

Design today needs to reorient itself toward deliberate transitions of everyday politics, social relations, and economies. Looking at design through the lens of political economy, Wizinsky calls for the field to transcend the logics, structures, and subjectivities of capitalism—to combine design entrepreneurship with social empowerment in order to facilitate new ways of producing those things, symbols, and experiences that make up everyday life.

After analyzing the parallel histories of capitalism and design, Wizinsky offers some historical examples of anticapitalist, noncapitalist, and postcapitalist models of design practice. These range from the British Arts and Crafts movement of the nineteenth century to contemporary practices of growing furniture or biotextiles and automated forms of production. Drawing on insights from sociology, philosophy, economics, political science, history, environmental and sustainability studies, and critical theory—fields not usually seen as central to design—he lays out core principles for postcapitalist design; offers strategies for applying these principles to the three layers of project, practice, and discipline; and provides a set of practical guidelines for designers to use as a starting point. The work of postcapitalist design can start today, Wizinsky says—with the next project.

Matthew Wizinsky, a designer with more than twenty years of professional experience, is Associate Professor in the Ullman School of Design at the University of Cincinnati and Associate Editor for the design journal *Visible Language*.

design | political science

March | 7 x 10, 344 pp. | 23 illus.

US \$32.95T/\$43.95 CAN paper

978-0-262-54356-9

“Matthew Wizinsky shows designers how to erode capitalism from the inside out by nurturing the commons and creating tools for cooperation and exchange. Above all, designers can help us downsize everything from packaging and waste to the ever-expanding work week of the creative classes.”

—**Ellen Lupton, coauthor of *Extra Bold: A Feminist, Inclusive, Anti-Racist, Nonbinary Field Guide for Graphic Designers***

“An essential examination of the potential for design and designers to contribute to societal transitions toward more sustainable, equitable, and desirable long-term futures.”

—**Terry Irwin, Director of the Transition Design Institute, Carnegie Mellon University**

Reimagining Design

Unlocking Strategic Innovation

Kevin G. Bethune

foreword by John Maeda

The power of transformative design, multidisciplinary leaps, and diversity: lessons from a Black professional's journey through corporate America.

Design offers so much more than an aesthetically pleasing logo or banner, a beautification add-on after the heavy lifting. In *Reimagining Design*, Kevin Bethune shows how design provides a unique angle on problem-solving—how it can be leveraged strategically to cultivate innovation and anchor multidisciplinary teamwork.

As he does so, he describes his journey as a Black professional through corporate America, revealing the power of transformative design, multidisciplinary leaps, and diversity. Bethune, who began as an engineer at Westinghouse, moved on to Nike (where he designed Air Jordans), and now works as a sought-after consultant on design and innovation, shows how design can transform both individual lives and organizations.

In Bethune's account, diversity, equity, and inclusion emerge as a recurring theme. He shows how, as we leverage design for innovation, we also need to consider the broader ecological implications of our decisions and acknowledge the threads of systemic injustice in order to realize positive change. His book is for anyone who has felt like the "other"—and also for allies who want to encourage anti-racist, anti-sexist and anti-ageist behaviors in the workplace. Design transformation takes leadership—leaders who do not act as gatekeepers but, with agility and nimbleness, build teams that mirror the marketplace.

Design in harmony with other disciplines can be incredibly powerful; multidisciplinary team collaboration is the foundation of future innovation. With insight and compassion, Bethune provides a framework for bringing this about.

Kevin G. Bethune is the Founder and Chief Creative Officer of dreams • design + life, a think tank for design and innovation. Over a career that spans more than twenty years, he has worked in engineering, business, and design.

business | design

February | 5 1/4 x 8, 208 pp. | 30 illus.

US \$24.95T/\$33.95 CAN cloth

978-0-262-04650-3

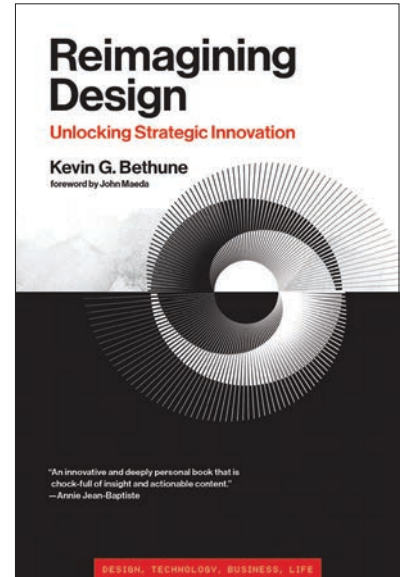
Simplicity: Design, Technology, Business, Life series

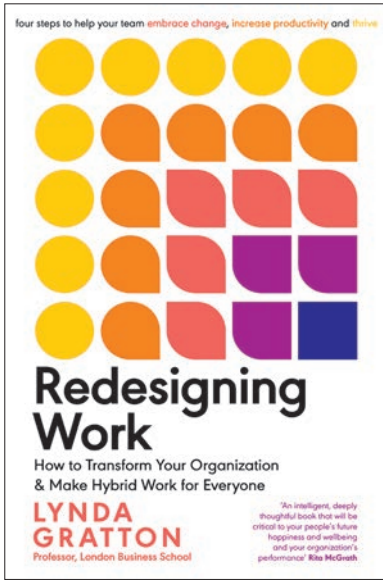
"An innovative and deeply personal book that is chock full of insight and actionable content. Bethune's emphasis on 'strategic' design thinking, combined with his ability to balance his corporate and engineering knowledge with design, will unlock value for many readers, from new grads to the C-suite."

—**Annie Jean-Baptiste, author of *Building for Everyone*; founder, Equity Army**

"With vulnerability, clarity, and actionable insights, Kevin Bethune answers important questions for increasing diversity and inclusion in design: What does it mean to be a Black man succeeding in design? What can you learn from him to help others succeed?"

—**Dori Tunstall, Dean of Design, OCAD University**





Redesigning Work

How to Transform Your Organization and Make Hybrid Work for Everyone

Lynda Gratton

How do we make the most of the greatest global shift in the world of work for a century and radically redesign the way we work—forever?

Professor Lynda Gratton is the global thought-leader on the future of work. Drawing on thirty years of research into the technological, demographic, cultural, and societal trends that are shaping work and building on what we learned through our experiences of the pandemic, Gratton presents her innovative four-step framework for redesigning work that will help you:

- Understand your people and what drives performance
- Reimagine creative new ways to work
- Model and test these approaches within your organization
- Act and create to ensure your redesign has lasting benefits

Gratton presents real-world case studies that show companies grappling with work challenges. These include the global bank HSBC, which built a multidisciplinary team to understand the employee experience; the Japanese technology company Fujitsu, which reimagined three kinds of “perfect” offices; and the Australian telecommunications company Telstra, which established new roles to coordinate work across the organization. Whether you’re working in a small team or running a multinational, *Redesigning Work* is the definitive book on how to transform your organization and make hybrid working work for you.

Lynda Gratton is Professor of Management Practice at the London Business School and Founder of the consultancy practice HSM Advisory. For over a decade she has been ranked among the top management thinkers globally by Thinkers50. She is the author of ten books, including *The Shift*, *The Key*, and with Andrew J. Scott, *The 100-Year Life* and *The New Long Life*.

business | management

May | 6 x 9, 256 pp.

US \$19.95 T/\$25.95 CAN paper

978-0-262-54498-6

Management on the Cutting Edge series, published in cooperation with *MIT Sloan Management Review*

“A remarkably thoughtful and practical guide to rethinking how work gets done. Perhaps the only thing we know for sure is that the workplace of the future is a moving target that will continue to come into focus in the coming years, influenced by many voices and many factors. With Gratton’s help, this journey can be far more systematic and rewarding than it would otherwise be.”

—**Amy C. Edmondson, Professor, Harvard Business School; author of *The Fearless Organization***

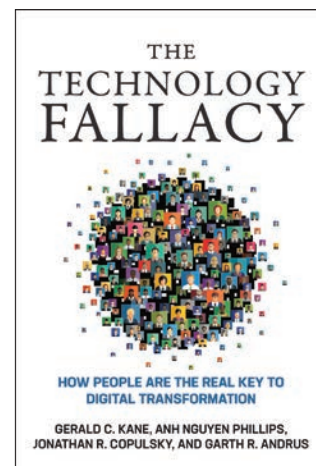
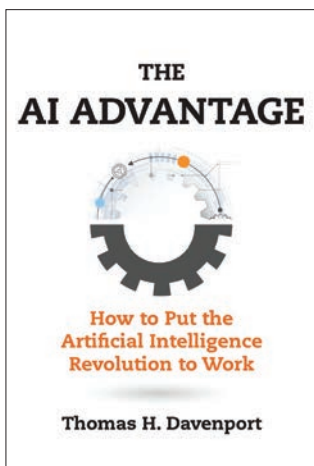
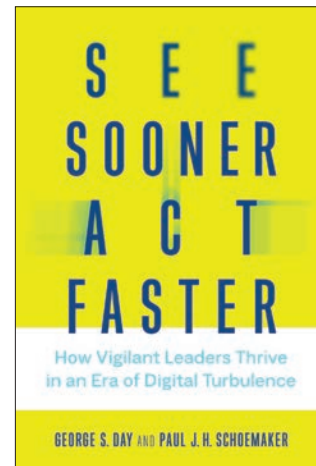
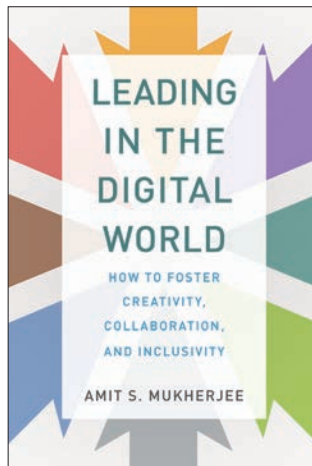
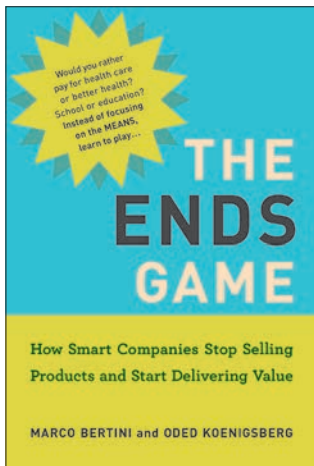
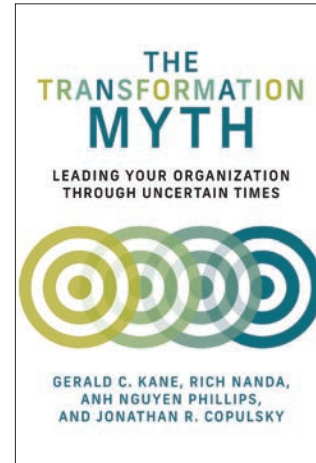
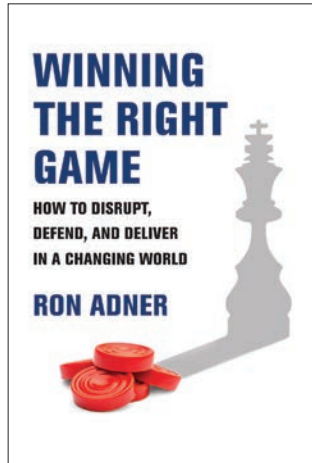
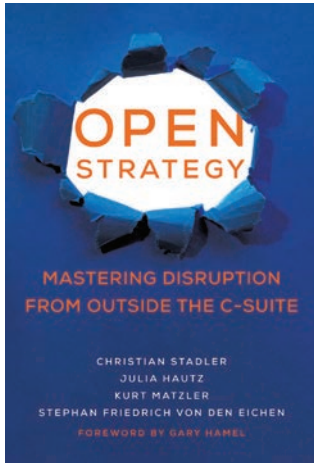
“Thought-provoking, deeply researched, and invaluable, this fascinating book will help you build, lead, and guide your organization through this time of extraordinary change.”

—**Gary Hamel, management expert and founder of Strategos**

“An intelligent, deeply thoughtful book that will walk you through the choices that will be critical to your people’s future happiness and well-being and, by extension, to your organization’s performance. Lynda Gratton’s sharp new book gives us a practical approach to parsing out the choices that will work in our unique situations.”

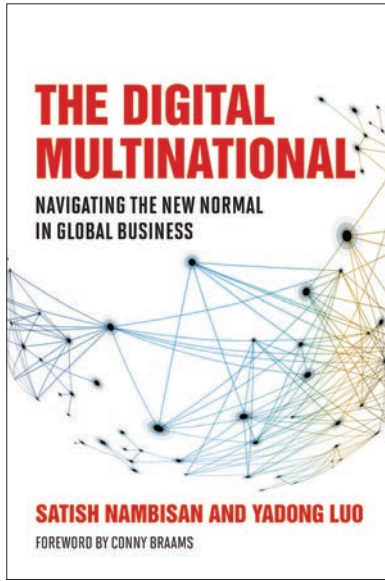
—**Rita McGrath, best-selling author and professor at Columbia Business School**

Management on the Cutting Edge Series



The books in the Management on the Cutting Edge Series—copublished with *MIT Sloan Management Review*—offer practical, proven guidance for business leaders facing unprecedented challenges.

mitpress.mit.edu/management



The Digital Multinational

Navigating the New Normal in Global Business

Satish Nambisan and Yadong Luo

foreword by Conny Braams, Chief Digital and Marketing Officer at Unilever

How multinational companies can use digital technology to compete in a world where business is driven by the forces of both globalization and deglobalization.

Digital technology has put globalization on steroids; multinational companies now account for one-third of world GDP and one-fourth of world employment. And yet complicating this story of unchecked global capitalism are two contradictory forces. Even as advances in digital technology enable borderless markets, a new nationalism has emerged, reviving protectionism and railing against digital colonialism. In *The Digital Multinational*, management experts Satish Nambisan and Yadong Luo examine how companies can adopt a dual strategy to cope with this new normal: harnessing the power of digital technology while adapting to the geopolitical realities of particular markets.

Key to success, Nambisan and Luo explain, is the notion of tight and loose coupling to characterize the relationship of the digital multinational to its global partners and subsidiaries. Identifying the tightness-looseness requirements of global business connectivity leads to successful business strategy. Drawing on real-world examples that include Burberry's entrance into the Chinese market, Unilever's AI-powered global talent marketplace, and the Vocal for Local movement in India, they develop a typology of global business contexts; discuss digital strategies for entering new markets, establishing digital platforms, managing globally dispersed activities, and pursuing innovation; and explain how these strategies can be part of a business leader's toolkit.

Satish Nambisan, a globally recognized authority on innovation and digital strategy, is Nancy and Joseph Keithley Professor of Technology Management at the Weatherhead School of Management at Case Western Reserve University. He is the author of *The Global Brain: Your Roadmap for Innovating Faster and Smarter in a Networked World* and other books. **Yadong Luo** is Emery M. Findley Distinguished Chair and Professor of Management at the University of Miami. He is the author of *Global Dimensions of Corporate Governance* and other books.

business | management

February | 6 x 9, 264 pp. | 6 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04632-9

Management on the Cutting Edge series, published in cooperation with *MIT Sloan Management Review*

"There is no doubt digital is changing our lives. And yet, just when we thought we'd seen it all, during the pandemic we saw an even faster pace of transformation across all walks of life. I highly recommend this insightful book to leaders across the globe as they navigate the new normal."

—Harit Talwar, Chairman of Consumer Business, Goldman Sachs

Work without Jobs

How to Reboot Your Organization's Work Operating System

Ravin Jesuthasan and John W. Boudreau

Why the future of work requires the deconstruction of jobs and the reconstruction of work.

Work is traditionally understood as a “job,” and workers as “jobholders.” Jobs are structured by titles, hierarchies, and qualifications. In *Work without Jobs*, Ravin Jesuthasan and John Boudreau propose a radically new way of looking at work. They describe a new “work operating system” that deconstructs jobs into their component parts and reconstructs these components into more optimal combinations that reflect the skills and abilities of individual workers. In a new normal of rapidly accelerating automation, demands for organizational agility, efforts to increase diversity, and the emergence of alternative work arrangements, the old system based on jobs and jobholders is cumbersome and ungainly. Jesuthasan and Boudreau’s new system lays out a roadmap for the future of work.

Work without Jobs presents real-world cases that show how leading organizations are embracing work deconstruction and reinvention. For example, when a robot, chatbot, or artificial intelligence takes over parts of a job while a human worker continues to do other parts, what is the “job”? DHL found some answers when it deployed social robotics at its distribution centers. Meanwhile, the biotechnology company Genentech deconstructed jobs to increase flexibility, worker engagement, and retention. Other organizations achieved agility with internal talent marketplaces, worker exchanges, freelancers, crowd-sourcing, and partnerships. It’s time for organizations to reboot their work operating system, and *Work without Jobs* offers an essential guide for doing so.

Ravin Jesuthasan, a recognized futurist and authority on the future of work, human capital, and automation, is Senior Partner and Global Leader for Transformation Services at Mercer. He is a member of the World Economic Forum’s steering committee on work and employment.

John W. Boudreau conducts breakthrough research on human capital, talent, and sustainable competitive advantage. He is Emeritus Professor of Management and Organization at the University of Southern California’s Marshall School of Business.

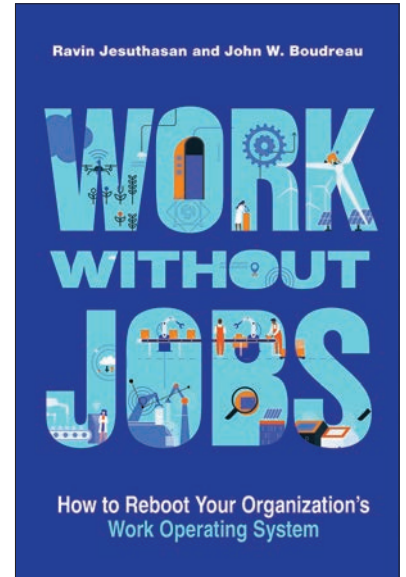
business

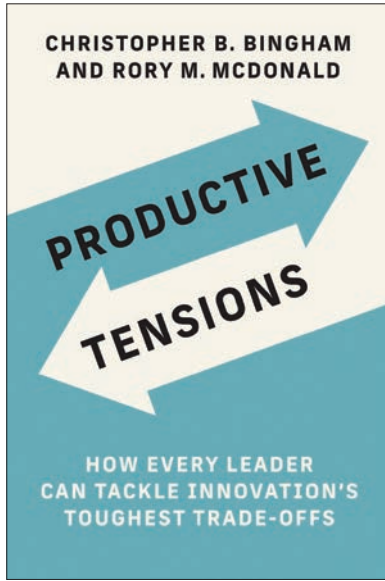
March | 6 x 9, 216 pp. | 8 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04641-1

Management on the Cutting Edge series, published in cooperation with MIT Sloan Management Review





Productive Tensions

How Every Leader Can Tackle Innovation's Toughest Trade-Offs

Christopher B. Bingham and Rory M. McDonald

How leaders can recast innovation's toughest trade-offs—efficiency vs. flexibility, consistency vs. change, product vs purpose—as productive tensions.

Why is leading innovation in today's dynamic business environment so distressingly hit-or-miss? More than 90 percent of high-potential ventures don't reach their projected targets. Surveys show that 80 percent of executives consider innovation crucial to their growth strategy, but only 6 percent are satisfied with their innovation performance. Should leaders aim for Steve-Jobs-level genius, or shower their projects with resources, or lean in to luck and embrace uncertainty? None of the above, say Chris Bingham and Rory McDonald.

Drawing on cutting-edge research and probing interviews with hundreds of leaders across three continents, in *Productive Tensions* Bingham and McDonald find that the most effective leaders and successful innovators embrace the tensions that arise from competing aims: efficiency or flexibility? consistency or change? product or purpose? Bingham and McDonald spotlight eight critical tensions that every innovator must master, and they spell out, with dozens of detailed examples of both success and failure, how to navigate them. How do you excite customers about a product they've never imagined? When is it wise to accept what the data is telling you, and when should you ignore the data and plow forward anyway? How can you maintain stakeholders' trust and support during radical unforeseen course corrections? Bingham and McDonald guide readers through innovation's thorniest tensions, using examples drawn from the experience of organizations as varied as P&G, Instagram, the US military, Honda, In-N-Out Burger, Slack, Under Armour, and the snowboarding company Burton.

Christopher B. Bingham is Philip Hettleman Distinguished Scholar and Professor and Area Chair of Strategy and Entrepreneurship at Kenan-Flagler Business School at the University of North Carolina—Chapel Hill.

Rory M. McDonald is Thai-Hi T. Lee Associate Professor of Business Administration at Harvard Business School.

business | management

April | 6 x 9, 168 pp. | 10 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04693-0

Management on the Cutting Edge series, published in cooperation with *MIT Sloan Management Review*

Inclusion on Purpose

An Intersectional Approach to Creating a Culture of Belonging at Work

Ruchika Tulshyan

foreword by Ijeoma Oluo

How organizations can foster diversity, equity, and inclusion: taking action to address and prevent workplace bias while centering women of color.

Few would disagree that inclusion is both the right thing to do and good for business. Then why are we so terrible at it? If we believe in the morality and the profitability of including people of diverse and underestimated backgrounds in the workplace, why don't we do it? Because, explains Ruchika Tulshyan in this eye-opening book, we don't realize that inclusion takes awareness, intention, and regular practice. Inclusion doesn't just happen; we have to work at it. Tulshyan presents inclusion best practices, showing how leaders and organizations can meaningfully promote inclusion and diversity.

Tulshyan centers the workplace experience of women of color, who are subject to both gender and racial bias. It is at the intersection of gender and race, she shows, that we discover the kind of inclusion policies that benefit all. Tulshyan debunks the idea of the "level playing field" and explains how leaders and organizations can use their privilege for good by identifying and exposing bias, knowing that they typically have less to lose in speaking up than a woman of color does. She explains why "leaning in" doesn't work—and dismantling structural bias does; warns against hiring for "culture fit," arguing for "culture add" instead; and emphasizes the importance of psychological safety in the workplace—you need to know that your organization has your back. With this important book, Tulshyan shows us how we can make progress toward inclusion and diversity—and we must start now.

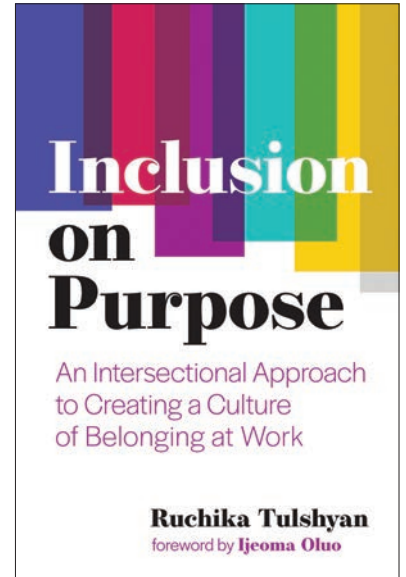
Ruchika Tulshyan, an award-winning inclusion strategist and speaker, is CEO and founder of Candour, which works with organizations to create diverse teams and inclusive cultures. A former business journalist, she has reported from four countries and writes regularly on inclusive leadership for the *Harvard Business Review*. She was named to the Thinkers50 list, a global ranking described by the *Financial Times* as "the Oscars of management thinking."

business | management

February | 6 x 9, 248 pp. | 1 illus.

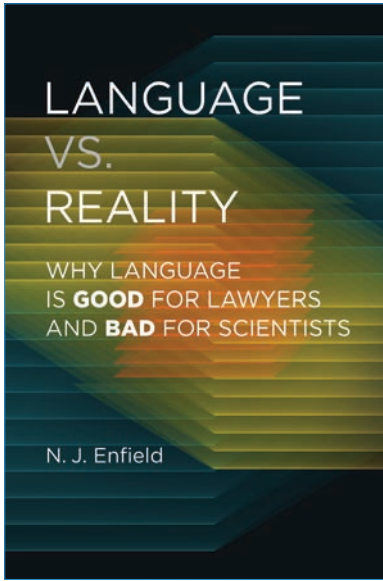
US \$29.95T/\$39.95 CAN cloth

978-0-262-04655-8



"As a woman of color and an executive, I know first-hand how important it is for companies to create opportunities for women of color to lead. *Inclusion on Purpose* shows how to build an inclusive workplace and culture through storytelling and practical frameworks. Whether you are a manager or you want to become one, this book is essential reading!"

—Reema Batnagar, VP People,
Pixar Animation Studios



Language vs. Reality

Why Language Is Good for Lawyers and Bad for Scientists

N. J. Enfield

A fascinating examination of how we are both played by language and made by language: the science underlying the bugs and features of humankind's greatest invention.

Language is said to be humankind's greatest accomplishment. But what is language actually good for? It performs poorly at representing reality. It is a constant source of distraction, misdirection, and overshadowing. In fact, N. J. Enfield notes, language is far better at persuasion than it is at objectively capturing the facts of experience. Language cannot create or change physical reality, but it can do the next best thing: reframe and invert our view of the world. In *Language vs. Reality*, Enfield explains why language is bad for scientists (who are bound by reality) but good for lawyers (who want to win their cases), why it can be dangerous when it falls into the wrong hands, and why it deserves our deepest respect.

Enfield offers a lively exploration of the science underlying the bugs and features of language. He examines the tenuous relationship between language and reality; details the array of effects language has on our memory, attention, and reasoning; and describes how these varied effects power narratives and storytelling as well as political spin and conspiracy theories. Why should we care what language is good for? Enfield, who has spent twenty years at the cutting edge of language research, argues that understanding how language works is crucial to tackling our most pressing challenges, including human cognitive bias, media spin, the “post-truth” problem, persuasion, the role of words in our thinking, and much more.

N. J. Enfield is Professor of Linguistics at the University of Sydney and Director of the Sydney Centre for Language Research and the Sydney Initiative for Truth. He is the author of *The Anatomy of Meaning*, *The Utility of Meaning*, *How We Talk*, and other books.

psychology | linguistics

March | 6 x 9, 312 pp. | 33 illus.

US \$32.95T/\$43.95 CAN cloth

978-0-262-04661-9

The Secrets of Words

Noam Chomsky and Andrea Moro

Two distinguished linguists on language, the history of science, misplaced euphoria, surprising facts, and potentially permanent mysteries.

In *The Secrets of Words*, influential linguist Noam Chomsky and his longtime colleague Andrea Moro have a wide-ranging conversation, touching on such topics as language and linguistics, the history of science, and the relation between language and the brain. Moro draws Chomsky out on today's misplaced euphoria about artificial intelligence (Chomsky sees "lots of hype and propaganda" coming from Silicon Valley), the study of the brain (Chomsky points out that findings from brain studies in the 1950s never made it into that era's psychology), and language acquisition by children. Chomsky in turn invites Moro to describe his own experiments on language and the brain, and Moro does so, drawing a distinction between *where* questions (where in the brain language happens) and *what* questions (what actual information is passed from one neuron to another).

Chomsky once said, "It is important to learn to be surprised by simple facts"—"an expression of yours that has represented a fundamental turning point in my own personal life," says Moro—and this is something of a theme in their conversation. Another theme is that not everything can be known; there may be permanent mysteries, about language and other matters. Not all words will give up their secrets.

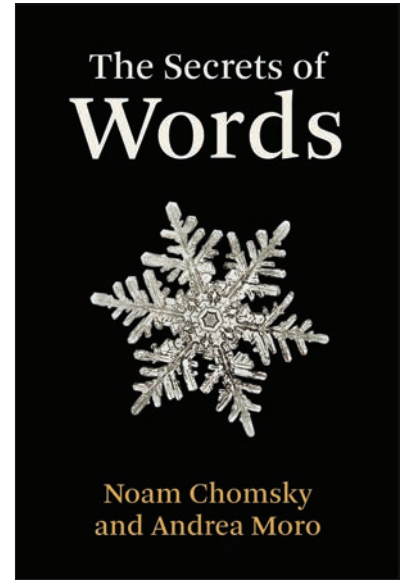
Noam Chomsky is Institute Professor and Professor of Linguistics Emeritus at MIT and Laureate Professor in the Department of Linguistics at the University of Arizona, where he is also the Agnese Nelms Haury Chair in the Agnese Nelms Haury Program in Environment and Social Justice. He is the author of many influential books on linguistics, including *Aspects of the Theory of Syntax* and *The Minimalist Program*, both published by the MIT Press. **Andrea Moro** is Professor of General Linguistics at the Institute for Advanced Study (IUS) in Pavia, Italy. He is the author of *Impossible Languages*, *The Boundaries of Babel*, and *A Brief History of the Verb To Be* (all published by the MIT Press), and other books.

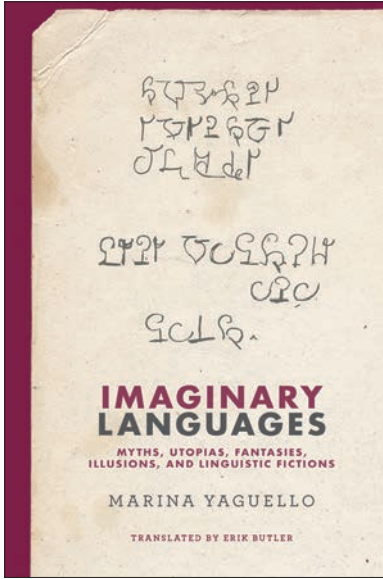
linguistics | philosophy

May | 4 x 6, 208 pp.

US \$16.95T/\$22.95 CAN cloth

978-0-262-04671-8





Imaginary Languages

Myths, Utopias, Fantasies, Illusions,
and Linguistic Fictions

Marina Yaguello

translated by Erik Butler

An exploration of the practice of inventing languages, from speaking in tongues to utopian schemes of universality to the discoveries of modern linguistics.

In *Imaginary Languages*, Marina Yaguello explores the history and practice of inventing languages, from religious speaking in tongues to politically utopian schemes of universality to the discoveries of modern linguistics. She looks for imagined languages that are autonomous systems, complete unto themselves and meant for communal use; imaginary, and therefore unlike both natural languages and historically attested languages; and products of an individual effort to lay hold of language. Inventors of languages, Yaguello writes, are madly in love: they love an object that belongs to them only to the extent that they also share it with a community.

Yaguello investigates the sources of imaginary languages, in myths, dreams, and utopias. She takes readers on a tour of languages invented in literature from the sixteenth to the twentieth century, including that in More's *Utopia*, Leibniz's "algebra of thought," and Bulwer-Lytton's linguistic fiction. She examines the linguistic fantasies (or madness) of Georgian linguist Nikolai Marr and Swiss medium Hélène Smith; and considers the quest for the true philosophical language. Yaguello finds two abiding (and somewhat contradictory) forces: the diversity of linguistic experience, which stands opposed to unifying endeavors, and, on the other hand, features shared by all languages (natural or not) and their users, which justifies the universalist hypothesis.

Recent years have seen something of a boom in invented languages, whether artificial languages meant to facilitate international communication or imagined languages constructed as part of science fiction worlds. In *Imaginary Languages* (an updated and expanded version of the earlier *Les Fous du langage*, published in English as *Lunatic Lovers of Language*), Yaguello shows that the invention of language is above all a passionate, dizzying labor of love.

Marina Yaguello is Professor Emerita of Linguistics at the University of Paris VII.

linguistics | philosophy

April | 5 1/4 x 8, 352 pp. | 11 illus.

US \$29.95T/\$39.95 CAN cloth
978-0-262-04639-8

Terra Forma

A Book of Speculative Maps

**Frédérique Aït-Touati, Alexandra Arènes,
and Axelle Grégoire**

foreword by Bruno Latour

translated by Amanda DeMarco

**Charting the exploration of an unknown world—
our own—with a new cartography of living things
rather than space available for conquest or
colonization.**

This book charts the exploration of an unknown world: our own. Just as Renaissance travelers set out to map the terra incognita of the New World, the mapmakers of *Terra Forma* have set out to rediscover the world that we think we know. They do this with a new kind of cartography that maps living things rather than space emptied of life and available to be conquered or colonized. The maps in *Terra Forma* lead us inward, not off into the distance, moving from the horizon line of conventional cartography to the thickness of the ground, from the global to the local.

Each map in *Terra Forma* is based on a specific territory or territories, and each tool, or model, creates a new focal point through which the territory is redrawn. The maps are “living maps,” always under construction, spaces where stories and situations unfold. They may map the Earth’s underside rather than its surface, suggest turning the layers of the Earth inside out, link the biological physiology of living inhabitants and the physiology of the land, or trace a journey oriented not by the Euclidean space of GPS but by points of life. These speculative visualizations can constitute the foundation for a new kind of atlas.

Frédérique Aït-Touati is a science historian, theater director, and Research Fellow at the CNRS (French National Centre for Scientific Research). **Alexandra Arènes** is a landscape architect working on a project in Gaia-graphy at the University of Manchester.

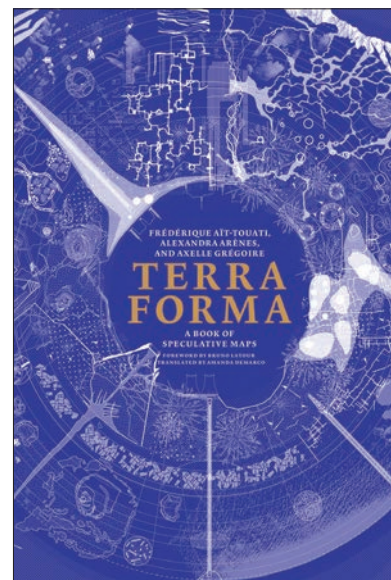
Axelle Grégoire is an architect who has worked in urban planning and on experimental transdisciplinary research projects on the city.

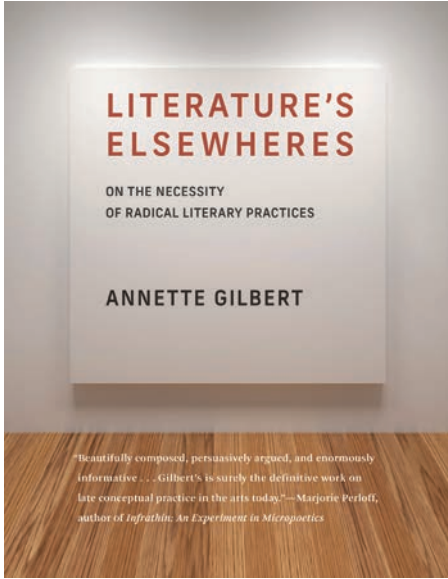
science | history

February | 6 1/2 x 9 1/2, 200 pp. | 35 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04669-5





Literature's Elsewheres

On the Necessity of Radical Literary Practices

Annette Gilbert

translated by the Cadenza Academic Translations team and Antonia Hirsch

An examination of a series of diverse, radical, and experimental international works from the 1950s to the present.

What is a literary work? In *Literature's Elsewheres*, Annette Gilbert tackles this question by deploying an extended concept of literature, examining a series of diverse, radical, experimental works from the 1950s to the present that occupy the liminal zone between art and literature. These works—by American Artist, Allison Parrish, Natalie Czech, Stephanie Syjuco, Fiona Banner, Elfriede Jelinek,

Dan Graham, Robert Barry, George Brecht, and others—represent a pluralized literary practice that imagines a different literature emerging from its elsewheres.

Investigating a work's coming into being—its transition from “text” to “work” as a social object and pragmatic category of literary communication—Gilbert probes the assumptions and foundations that underpin literature, including the ideologies and power structures that prop it up. She offers a snapshot from a period of recent literary and art history when such central concepts as originality and authorship were questioned and experimental literary practices ranged from concrete poetry and Oulipo to conceptual writing and appropriation literature. She examines works that are dematerialized, site-specific, unique copies of other works, and institutional critiques. Considering the inequalities, exclusions, and privileges inscribed in literature, she documents the power of experimental literature to attack these norms and challenges the field's canonical geographic boundaries by examining artists with roots in North and South America, East Asia, and Western and Eastern Europe. The cross-pollination of literary and art criticism enriches both fields. With *Literature's Elsewheres*, Gilbert explores what art can't see about the literary and what literature has overlooked in the arts.

Annette Gilbert is Associate Professor in Comparative Literature at Friedrich-Alexander Universität Erlangen-Nuremberg. Her recent publications include *Under the Radar: Underground Zines and Self-Publications 1965–1975* and *Publishing as Artistic Practice* (Sternberg Press).

art | literary criticism

March | 7 x 9, 432 pp. | 88 illus.

US \$34.95T/\$45.95 CAN paper

978-0-262-54341-5

“Beautifully composed, persuasively argued, and enormously informative, Annette Gilbert's cutting-edge study of recent experimental poetry and art, from Mallarmé and Marcel Broodthaers to Elfriede Jelinek and Sherrie Levine, compels us to revise our inherited notions of what the 'literary' now looks and sounds like. Gilbert's is surely the definitive work on late conceptual practice in the arts today.”

—Marjorie Perloff, author of *Infrathin: An Experiment in Micropoetics*

Philosophy for Passengers

Michael Marder

illustrations by Tomás Saraceno

A philosophical guide to passengerhood, with reflections on time, space, existence, boredom, our sense of self, and our sense of the senses.

While there are entire bookstore sections—and even entire bookstores—devoted to travel, there have been few books on the universal experience of being a passenger. With this book, philosopher Michael Marder fills the gap, offering a philosophical guide to passengerhood. He takes readers from ticketing and preboarding (preface and introduction) through a series of stops and detours (reflections on topics including time, space, existence, boredom, our sense of self, and our sense of the senses) to destination and disembarking (conclusion).

Marder finds that the experience of passengers in the twenty-first century is experience itself, stretching well beyond railroad tracks and airplane flight patterns. On his journey through passengerhood, he considers, among many other things, passenger togetherness, which goes hand in hand with passenger loneliness; flyover country and the idea of placeness; and Descartes in an airplane seat. He tells us that the word *metaphor* means *transport* in Greek and discusses the gray area between literalness and metaphoricity; explains the connection between reading and riding; and ponders the difference between destination and destiny. Finally, a Beckettian disembarking: you might not be able to disembark, yet you must disembark. After the voyage in the world ends, the journey of understanding begins.

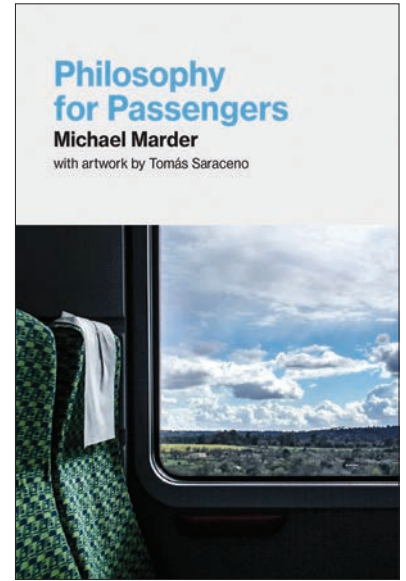
Michael Marder is Ikerbasque Research Professor in the Department of Philosophy at the University of the Basque Country (UPV-EHU). He is the author of *The Philosopher's Plant: An Intellectual Herbarium*; *Dump Philosophy: A Phenomenology of Devastation*; and other books.

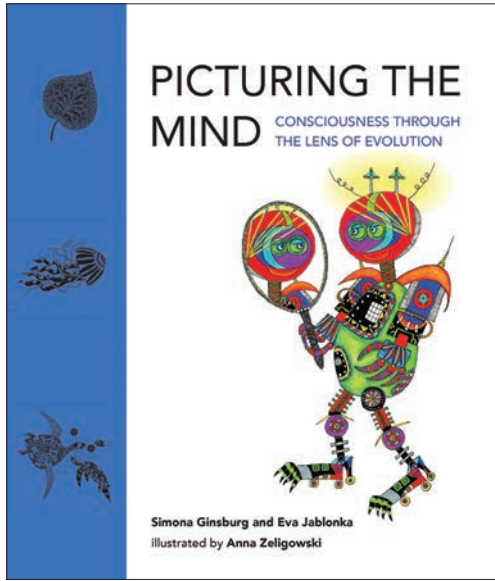
travel | philosophy

May | 5 x 7, 240 pp. | 19 illus.

US \$15.95T/\$21.95 CAN paper

978-0-262-54371-2





Picturing the Mind

Consciousness through the Lens
of Evolution

Simona Ginsburg and Eva Jablonka

illustrated by Anna Zeligowski

**Consciousness in all its possible
human and nonhuman varieties,
explored through words and images.**

What is consciousness, and who (or what) is conscious—humans, nonhumans, nonliving beings? How did consciousness evolve? *Picturing the Mind* pursues these questions through a series of “vistas”—short, engaging texts by Simona Ginsburg and Eva Jablonka, accompanied by Anna Zeligowski’s lively illustrations.

Taking an evolutionary perspective, Ginsburg and Jablonka suggest that consciousness can take many forms and is found not only in humans but even in such animals as octopuses (who seem to express emotions by changing color) and bees (who socialize with other bees). They identify the possible evolutionary marker of the transition from nonconscious to conscious animals, and they speculate intriguingly about aliens and artificial intelligence.

Each picture and text serves as a starting point for discussion. The authors consider, among other things, what it’s like to be a bat (and then later, what it’s like to be a bat in virtual reality); ask if the self is like a hole in a doughnut; report that women, children, and nonwhite men were once thought by white men to be less richly conscious; and explore what sets humans apart—is it music, toolmaking, cooperative parenting, blushing, sentience, symbolic language? In *Picturing the Mind*, questions suggest answers.

Simona Ginsburg is Associate Professor at the Open University of Israel, where she developed and headed the MA Program in Biological Thought. **Eva Jablonka** is Professor at the Cohn Institute for the History and Philosophy of Science and Ideas at Tel-Aviv University. Ginsburg and Jablonka are coauthors of *The Evolution of the Sensitive Soul: Learning and the Origins of Consciousness* (MIT Press). **Anna Zeligowski** is an artist and physician. Her illustrations have appeared in numerous books and articles on scientific subjects.

psychology

February | 8 x 9, 256 pp. | 87 color illus.

US \$39.95T/\$53.95 CAN cloth

978-0-262-04675-6

“Two of the central voices of evolutionary consciousness science present a remarkable work about the mind and its embodiments. Clear exposition of deep concepts, many new ideas, and incredible artwork will move readers on many levels. Most highly recommended.”

—**Michael Levin, Distinguished Professor and Vannevar Bush Chair, Department of Biology, and Director of the Allen Discovery Center, Tufts University**

Machines like Us

Toward AI with Common Sense

Ronald J. Brachman and Hector J. Levesque

How we can create artificial intelligence with broad, robust common sense rather than narrow, specialized expertise.

It's sometime in the not-so-distant future, and you send your fully autonomous self-driving car to the store to pick up your grocery order. The car is endowed with as much capability as an artificial intelligence agent can have, programmed to drive better than you do. But when the car encounters a traffic light stuck on red, it just sits there—indefinitely. Its obstacle-avoidance, lane-following, and route-calculation capacities are all irrelevant; it fails to act because it lacks the common sense of a human driver, who would quickly figure out what's happening and find a workaround. In *Machines like Us*, Ron Brachman and Hector Levesque—both leading experts in AI—consider what it would take to create machines with common sense rather than just the specialized expertise of today's AI systems.

Using the stuck traffic light and other relatable examples, Brachman and Levesque offer an accessible account of how common sense might be built into a machine. They analyze common sense in humans, explain how AI over the years has focused mainly on expertise, and suggest ways to endow an AI system with both common sense and effective reasoning. Finally, they consider the critical issue of how we can trust an autonomous machine to make decisions, identifying two fundamental requirements for trustworthy autonomous AI systems: having reasons for doing what they do, and being able to accept advice. Both in the end are dependent on having common sense.

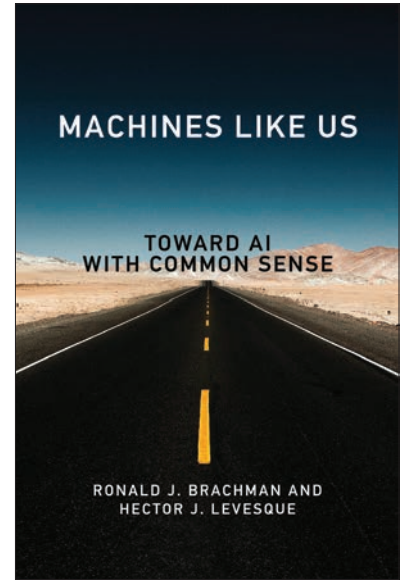
Ron Brachman is Director of the Jacobs Technion-Cornell Institute at Cornell Tech in New York City and Professor of Computer Science at Cornell University. During a long career in industry, he held leadership positions at Bell Labs, Yahoo, and DARPA. **Hector Levesque** is Professor Emeritus in the Department of Computer Science at the University of Toronto. He is the author of *Common Sense*, *the Turing Test*, and *the Quest for Real AI* (MIT Press), and other books.

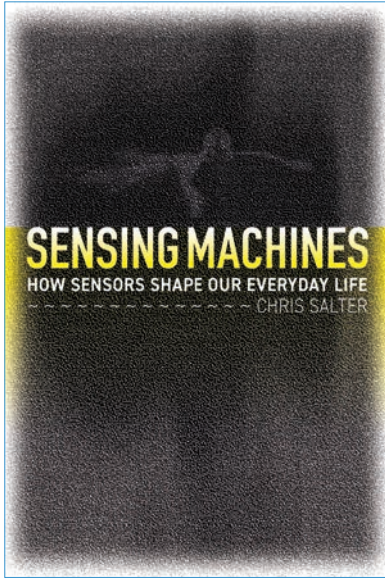
technology

May | 6 x 9, 320 pp. | 18 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04679-4





Sensing Machines

How Sensors Shape Our Everyday Life

Chris Salter

How we are tracked, surveilled, tantalized, and seduced by machines ranging from smart watches and Roombas to immersive art installations.

Sensing machines are everywhere in our world. As we move through the day, electronic sensors and computers adjust our thermostats, guide our Roombas, count our steps, change the orientation of an image when we rotate our phones. There are more of these electronic devices in the world than there are people—in 2020, thirty to fifty billion of them (versus 7.8 billion people), with more than a trillion expected in the next decade. In *Sensing Machines*, Chris Salter examines how we are tracked, surveilled, tantalized, and seduced by machines ranging from smart watches and mood trackers to massive immersive art installations.

Salter, an artist/scholar who has worked with sensors and computers for more than twenty years, explains that the quantification of bodies, senses, and experience did not begin with the surveillance capitalism practiced by Facebook, Amazon, Netflix, and Google but can be traced back to mathematical and statistical techniques of the nineteenth century. He describes the emergence of the “sensed self,” investigating how sensor technology has been deployed in music and gaming, programmable and immersive art environments, driving, and even eating, with e-tongues and e-noses that can taste and smell for us. Sensing technology turns our experience into data; but Salter’s story isn’t just about what these machines want from us, but what we want from them—new sensations, the thrill of the uncanny, and magic that will transport us from our daily grind.

Chris Salter is an artist, Professor of Design and Computation Arts at Concordia University, and Codirector of the Hexagram network for arts, culture, and technology. He is the author of *Entangled: Technology and the Transformation of Performance* and *Alien Agency: Experimental Encounters with Art in the Making*, both published by the MIT Press.

technology | design

March | 6 x 9, 320 pp. | 60 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04660-2

Inequality

A Genetic History

Carles Lalueza-Fox

How genomics reveals deep histories of inequality, going back many thousands of years.

Inequality is an urgent global concern, with pundits, politicians, academics, and best-selling books taking up its causes and consequences. In *Inequality*, Carles Lalueza-Fox offers an entirely new perspective on the subject, examining the genetic marks left by inequality on humans throughout history. Lalueza-Fox describes genetic studies, made possible by novel DNA sequencing technologies, that reveal layers of inequality in past societies, manifested in patterns of migration, social structures, and funerary practices. Through their DNA, ancient skeletons have much to tell us, yielding anonymous stories of inequality, bias, and suffering.

Lalueza-Fox, a leader in paleogenomics, offers the deep history of inequality. He explores the ancestral shifts associated with migration and describes the gender bias unearthed in these migrations—the brutal sexual asymmetries, for example, between male European explorers and the women of Latin America that are revealed by DNA analysis. He considers social structures, and the evidence that high social standing was inherited—the ancient world was not a meritocracy. He untangles social and genetic factors to consider whether wealth is an advantage in reproduction, showing why we are more likely to be descended from a king than a peasant. And he explores the effects of ancient inequality on the human gene pool. Marshaling a range of evidence, Lalueza-Fox shows that understanding past inequalities is key to understanding present ones.

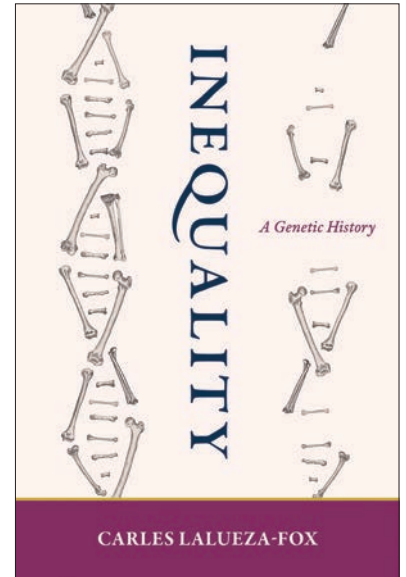
Carles Lalueza-Fox is Research Professor and Director of the Paleogenomics Lab at the Institute of Evolutionary Biology (CSIC-Universitat Pompeu Fabra) in Barcelona. He participated in the Neandertal Genome Project and led the first retrieval of the genome of an 8,000-year-old European hunter-gatherer.

history | science

February | 6 x 9, 192 pp. | 22 illus.

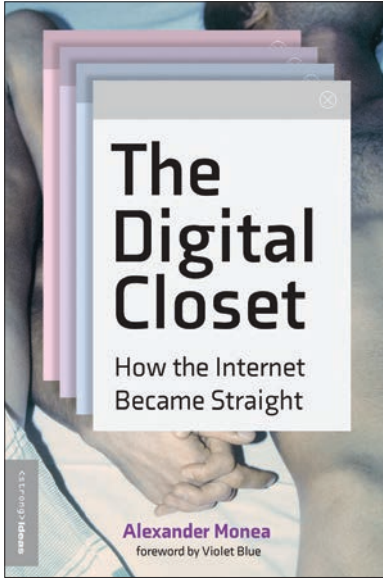
US \$27.95T/\$36.95 CAN cloth

978-0-262-04678-7



“In this important and disturbing book, Lalueza-Fox shows that while our genes may not cause social, economic, and political inequality, they carry the evidence of millennia of human inequality and dominance: men over women, powerful over weak, technologically advanced over traditional.”

—Patrick J. Geary, Professor Emeritus, Institute for Advanced Study



The Digital Closet

How the Internet Became Straight

Alexander Monea

An exploration of how heteronormative bias is deeply embedded in the internet, hidden in algorithms, keywords, content moderation, and more.

In *The Digital Closet*, Alexander Monea argues provocatively that the internet became straight by suppressing everything that is not, forcing LGBTQ+ content into increasingly narrow channels—rendering it invisible through opaque algorithms, automated and human content moderation, warped keywords, and other strategies of digital overreach. Monea explains how the United States’ thirty-year “war on porn” has brought about the over-regulation of sexual content, which, in turn, has resulted in the censorship of much nonpornographic content—including material on sex education and LGBTQ+ activism. In this wide-ranging, enlightening account, Monea examines the cultural, technological, and political conditions that put LGBTQ+ content into the closet.

Monea looks at the anti-porn activism of the alt-right, Christian conservatives, and anti-porn feminists, who became strange bedfellows in the politics of pornography; investigates the coders, code, and moderators whose work serves to reify heteronormativity; and explores the collateral damage in the ongoing war on porn—the censorship of LGBTQ+ community resources, sex education materials, art, literature, and other content that engages with sexuality but would rarely be categorized as pornography by today’s community standards. Finally, he examines the internet architectures responsible for the heteronormalization of porn: Google Safe Search and the data structures of tube sites and other porn platforms.

Monea reveals the porn industry’s deepest, darkest secret: porn is boring. Mainstream porn is stuck in a heteronormative filter bubble, limited to the same heteronormative tropes, tagged by the same heteronormative keywords. Everyone suffers from this forced heteronormativity of the internet—suffering, Monea suggests, that could be alleviated by queering straightness and introducing feminism to dissipate the misogyny.

Alexander Monea is Assistant Professor in the English Department and Cultural Studies Program at George Mason University.

cultural studies | technology

April | 6 x 9, 280 pp. | 11 illus.

US \$29.95T/\$39.95 CAN cloth

978-0-262-04677-0

Strong Ideas series

Artificial Communication

How Algorithms Produce Social Intelligence

Elena Esposito

A proposal that we think about digital technologies such as machine learning not in terms of artificial intelligence but as artificial communication.

Algorithms that work with deep learning and big data are getting so much better at doing so many things that it makes us uncomfortable. How can a device know what our favorite songs are, or what we should write in an email? Have machines become too smart? In *Artificial Communication*, Elena Esposito argues that drawing this sort of analogy between algorithms and human intelligence is misleading. If machines contribute to social intelligence, it will not be because they have learned how to think like us but because we have learned how to communicate with them. Esposito proposes that we think of “smart” machines not in terms of artificial intelligence but as artificial communication.

To do this, we need a concept of communication that can take into account the possibility that a communication partner may not be a human being but an algorithm—which is not random and is completely controlled, although not by the processes of the human mind. Esposito investigates this by examining the use of algorithms in different areas of social life. She explores the proliferation of lists (and lists of lists) online, explaining that the web works on the basis of lists to produce further lists; the use of visualization; digital profiling and algorithmic individualization, which personalize a mass medium with playlists and recommendations; and the implications of the “right to be forgotten.” Finally, she considers how photographs today seem to be used to escape the present rather than to preserve a memory.

Elena Esposito is Professor of Sociology at the University Bielefeld and the University of Bologna.

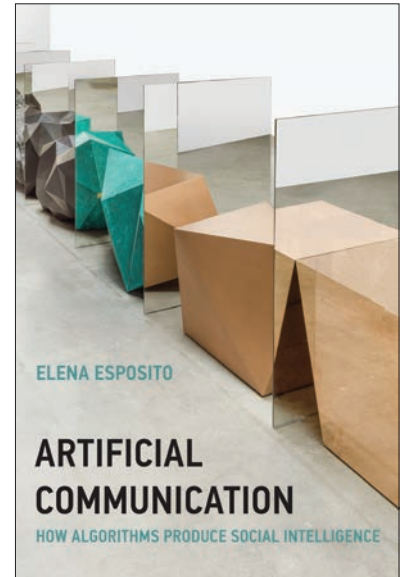
technology

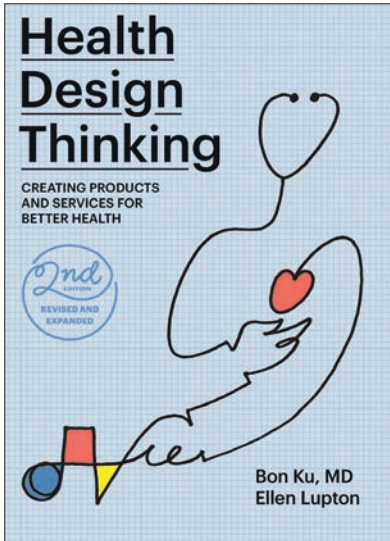
April | 6 x 9, 208 pp. | 1 illus.

US \$27.95T/\$36.95 CAN cloth

978-0-262-04666-4

Strong Ideas series





Health Design Thinking

Creating Products and Services for Better Health

second edition

Bon Ku and Ellen Lupton

A practice-based guide to applying the principles of human-centered design to real-world health challenges; updated and expanded with post-COVID-19 innovations.

This book offers a practice-based guide to applying the principles of human-centered design to real-world health challenges that range from drug packaging to breast cancer detection. Written by pioneers in the field—Bon Ku, a physician leader in innovative health design, and Ellen Lupton, an award-winning graphic designer—the book outlines the fundamentals of design thinking and highlights important products, prototypes, and research in health design. This revised and expanded edition describes innovations developed in response to the COVID-19 crisis, including an intensive care unit in a shipping container, a rolling cart with intubation equipment, and a mask brace that gives a surgical mask a tighter seal.

The book explores the special overlap of health care and the creative process, describing the development of such products and services as a credit card-sized device that allows patients to generate their own electrocardiograms; a mask designed to be worn with a hijab; improved emergency room signage; and a map of racial disparities and COVID-19. It will be an essential volume for health care providers, educators, patients, and designers who seek to create better experiences and improved health outcomes for individuals and communities.

Bon Ku, MD, a practicing emergency physician, is Marta and Robert Adelson Professor of Medicine and Design at Sidney Kimmel Medical College at Thomas Jefferson University, where he is also Director of the Health Design Lab. **Ellen Lupton** is Senior Curator of Contemporary Design at Cooper Hewitt, Smithsonian Design Museum, in New York, and Director of the Graphic Design MFA program at Maryland Institute College of Art. She is the author of *Beautiful Users*, *Design Is Storytelling*, *The Senses: Design Beyond Design*, and other books.

design | medical

February | 6 1/2 x 8 1/2, 228 pp. | 300 color illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54360-6

Climates. Habitats. Environments.

edited by Ute Meta Bauer

Artists and writers go beyond disciplinary boundaries and linear histories to address the fight for environmental justice, uniting the Asia-Pacific vantage point with international discourse.

Modeling the curatorial as a method for uniting cultural production and science, *Climates. Habitats. Environments.* weaves together image and text to address the global climate crisis. Through exhibitions, artworks, and essays, artists and writers transcend disciplinary boundaries and linear histories to bring their knowledge and experience to bear on the fight for environmental justice. In doing so, they draw on the rich cultural heritage of the Asia-Pacific, in conversation with international discourse, to demonstrate transdisciplinary solution-seeking.

Experimental in form as well as in method, *Climates. Habitats. Environments.* features an inventive book design by mono.studio that puts word and image on equal footing, offering a multiplicity of media, interpretations, and manifestations of interdisciplinary research. For example, botanist Matthew Hall draws on Ovid's *Metamorphoses* to discuss human-plant interpenetration; curator and writer Venus Lau considers how spectrality consumes—and is consumed—in animation and film, literature, music, and cuisine; and critical theorist and filmmaker Elizabeth Povinelli proposes “Water Sense” as a geontological approach to “the question of our connected and differentiated existence,” informed by the “ancestral catastrophe of colonialism.” Artists excavate the natural and cultural DNA of indigo, lacquer, rattan, and mulberry; works at the intersection of art, design, and architecture explore “The Posthuman City”; an ongoing research project investigates the ecological urgencies of Pacific archipelagos. The works of art, the projects, and the majority of the texts featured in the book were commissioned by NTU Centre for Contemporary Art Singapore.

Ute Meta Bauer is Founding Director of NTU Centre for Contemporary Art Singapore and Professor in the School of Art, Design, and Media at Nanyang Technological University Singapore. Previously, she was Associate Professor and Founding Director of the MIT Program in Art, Culture, and Technology (ACT) in the MIT School of Architecture and Planning (SA+P).

art

March | 9 x 11 1/2, 368 pp. | 400 illus.

US \$60.00T/\$79.00 CAN cloth

978-0-262-04681-7

Copublished with NTU Centre for Contemporary Art Singapore



Featured writers

Ravi Agarwal, Nabil Ahmed, Cynthia Chou, Michael MJ Fischer, Édouard Glissant, Donna Haraway, Matthew Hall, Epeli Hau'ofa, May Adadol Ingawanij, Venus Lau, Michael Marder, Nina Oeghoede and Philippe Piroette, Nikos Papastergiadis and David Pledger, Elizabeth Povinelli, Marian Pastor Roces and Tan Zi Hao

With short texts by

Alfian Sa'at, Jake Atienza, Sean Connelly, Kenneth Dean, Faizah Binte Zakaria, Huang Jui-Mao, Anna Källén, Susanne Kriemann, Philippa Lovatt, Rob Nixon, Tania Roy, Matariki Williams, and others

Featured artists include

Irwan Ahmett and Tita Salina, Martha Atienza, Tarek Atoui, Tanatchai Bandasak, Rossella Biscotti, Sean Connelly, Choy Ka Fai, Lucy Davis, Ade Darmawan, Ines Doujak, Jef Geys, Ho Tzu Nyen, Susanne Kriemann, Nicholas Mangan, Alice Miceli, Zarina Muhammad, Manish Nai, Nguyen Trinh Thi; Park Chan-kyong; Sopheap Pich, Marjectica Potrč; Bridget Reweti, Melati Suryodarmo, Sung Tieu, Apichatpong Weerasethakul, Wu Mali, Robert Zhao Renhui

Living and Working

Dogma

An argument against the ideology of domesticity that separates work from home; lavishly illustrated, with architectural proposals for alternate approaches to working and living.

Despite the increasing numbers of people who now work from home, in the popular imagination the home is still understood as the sanctuary of privacy and intimacy. Living is conceptually and definitively separated from work. This book argues against such a separation, countering the prevailing ideology of domesticity with a series of architectural projects that illustrate alternative approaches.

Less a monograph than a treatise, richly illustrated, the book combines historical

research and design proposals to envision home as a cooperative structure in which it is possible to live and work and in which labor is socialized beyond the family—freeing inhabitants from the sense of property and the burden of domestic labor.

The projects aim to move the house beyond the dichotomous logic of male/female, husband/wife, breadwinner/housewife, and private/public. They include the reinvention of single-room occupancy as a new model for affordable housing; the reimagining of the simple tower-and-plinth prototype as host to a multiplicity of work activities and enlivening street life; and a plan for a modular, adaptable structure meant to house a temporary dweller. All of these design projects conceive of the house not as a commodity, the form of which is determined by its exchange value, but as an infrastructure defined by its use value.

Pier Vittorio Aureli and **Martino Tattara** are cofounders of Dogma, a Brussels-based architectural studio that focuses on urban design and large-scale projects. Aureli teaches at the AA School of Architecture in London and is Professor in Practice at Yale University; Tattara is Associate Professor at the Faculty of Architecture, KU Leuven.

architecture

May | 9 x 11, 320 pp. | 260 color illus., 235 b&w illus.

US \$44.95T/\$59.95 CAN paper

978-0-262-54351-4

Notes from Another Los Angeles

Gregory Ain and the Construction of a Social
Landscape

edited by Anthony Fontenot

The first book to focus on California architect Gregory Ain's housing projects, which featured open kitchens, movable walls, and other design innovations.

The Southern California architect Gregory Ain (1908–1988) collaborated with some of the most celebrated figures of midcentury design, including Rudolph Schindler, Richard Neutra, and Charles and Ray Eames, and yet is relatively unknown today. Although Ain designed many private homes for wealthy liberals, he was more interested in finding ways to produce high-quality, low-cost houses in well-designed neighborhood settings for working-class families. This is the first book to focus on these innovative housing projects and examine the way they synthesized Ain's architectural and political ideals.

The book presents historical black-and-white photographs by the celebrated photographer of midcentury modern architecture Julius Shulman, depicting the houses in their original condition, as well as contemporary color photographs by Kyungsub Shin showing four of Ain's built housing projects—Dunsmuir Flats, Park Planned Homes, Avenal Cooperative Housing, and Mar Vista Housing. These are accompanied by essays by contemporary historians and historical articles written by and about Ain, including a previously unpublished text by Esther McCoy.

Ain's housing projects represented a new paradigm in neighborhood design that celebrated the everyday life and diversity of ordinary people. Ain's innovations—including open kitchens and movable partition walls for a “flexible” house—aimed to solve specific problems rather than pursue arbitrary expressions of uniqueness. His high-density developments anticipate contemporary efforts to design buildings with a minimal-footprint. Generously illustrated, this volume reintroduces Ain to a forgetful field.

Anthony Fontenot is Professor of Architecture at Woodbury University School of Architecture in Los Angeles and the author of *Non-Design: Architecture, Liberalism, and the Market*.

architecture

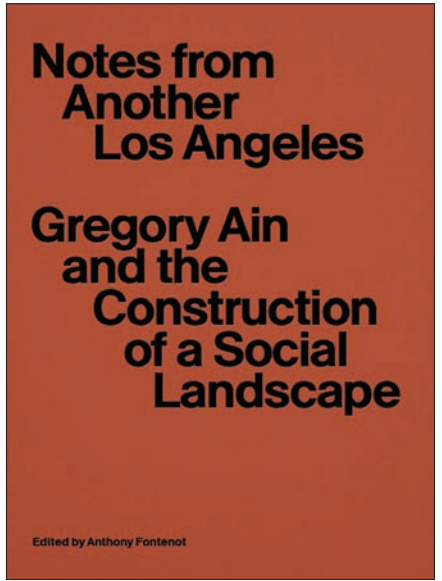
June | 7 1/4 x 9 3/4, 324 pp. | 100 color illus., 66 b&w illus.

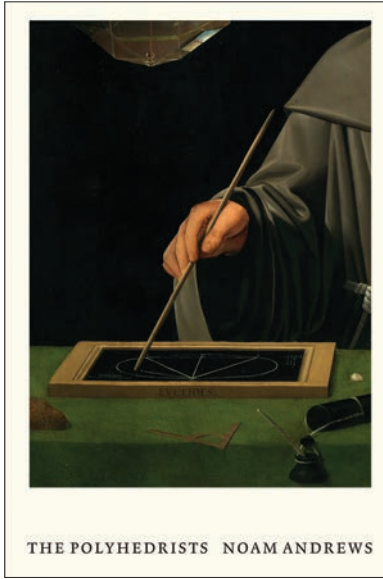
US \$44.95T/\$59.95 CAN paper

978-0-262-04665-7

Contributors

Anthony Denzer, Anthony Fontenot,
Anali Gharakhani, Esther McCoy,
Nicholas Olsberg, Kyungsub Shin,
Julius Schulman





The Polyhedrists

Art and Geometry in the Long Sixteenth Century

Noam Andrews

A history of the relationship between art and geometry in the early modern period.

In *The Polyhedrists*, Noam Andrews unfolds a history of the relationship between art and geometry in early modern Europe, told through a collective of groundbreaking artist-artisans (among them, Albrecht Dürer, Wenzel Jamnitzer, and Lorentz Stöer) and by detailed analysis of a rich visual panoply of their work, featuring paintings, prints, decorative arts, cabinetry, and lavishly illustrated treatises. But this is also a history of polyhedra themselves, one that charts their progressive estrangement from text-bound instruction in mathematics and philosophy and their subsequent transformation into emblems of virtuosity and bravura. Whether the Platonic tetrahedron or the “irregular” rhombicosidodecahedron, it was polyhedra that came to constitute an iconography of geometrical abundance.

The Polyhedrists argues that the geometrical oeuvre of Dürer, Jamnitzer, et al. consisted of more than perspectival follies destined to be superseded by later developments in higher-level mathematics. In fact, the evolution of the Platonic solids into innumerable “irregular bodies” constituted a sustained moment in the formulation of Renaissance mathematical knowledge and its engagement with materiality. This intense field of experimentation birthed a language of geometrical abstraction that would ignite a century of novel form-making strategies, ultimately paving the way for developments in geometry and topology in the nineteenth and early twentieth centuries and prefiguring the more recent digital turn. Hence the book is both an expansive history of geometry made visible and a manifest of a very particular, polyhedral fascination. Taken together, they plot a new trail into the wilds of art and science.

Noam Andrews, a historian of science and an architect, is a Research Fellow in the Faculty of Arts and Philosophy at Ghent University, Belgium.

art | mathematics

April | 6 x 9, 304 pp. | 87 illus.

US \$44.95T/\$59.95 CAN paper

978-0-262-04664-0

Radical Pedagogies

edited by Beatriz Colomina, Ignacio G. Galán,
Evangelos Kotsioris, and Anna-Maria Meister

**Experiments in architectural education
in the post-World War II era that challenged
and transformed architectural discourse
and practice.**

In the decades after World War II, new forms of learning transformed architectural education. These radical experiments sought to upend disciplinary foundations and conventional assumptions about the nature of architecture as much as they challenged modernist and colonial norms, decentered building, imagined new roles for the architect, and envisioned participatory forms of practice. Although many of the experimental programs were subsequently abandoned, terminated, or assimilated, they nevertheless helped shape and in some sense define architectural discourse and practice. This book explores and documents these radical pedagogies and efforts to defy architecture's status quo.

The experiments include the adaptation of Bauhaus pedagogy as a means of “unlearning” under the conditions of decolonization in Africa; a movement to design for “every body,” including the disabled, by architecture students and faculty at the University of California, Berkeley; the founding of a support network for women interested in the built environment, regardless of their academic backgrounds; and a design studio in the USSR that offered an alternative to the widespread functionalist approach in Soviet design. Viewed through their dissolution and afterlife as well as through their founding stories, these projects from the last century raise provocative questions about architecture's role in the new century.

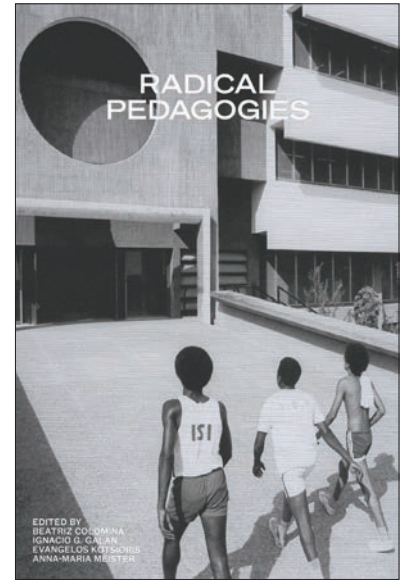
Beatriz Colomina is Howard Crosby Butler Professor of the History of Architecture at Princeton University and the author of *X-Ray Architecture* and other books. **Ignacio G. Galán** is Assistant Professor at Barnard College, Columbia University. **Evangelos Kotsioris**, an architectural historian, architect, and curator, is a Curatorial Assistant in the Department of Architecture and Design at the Museum of Modern Art in New York. **Anna-Maria Meister** is Professor of Architecture Theory and Science at Technical University of Darmstadt.

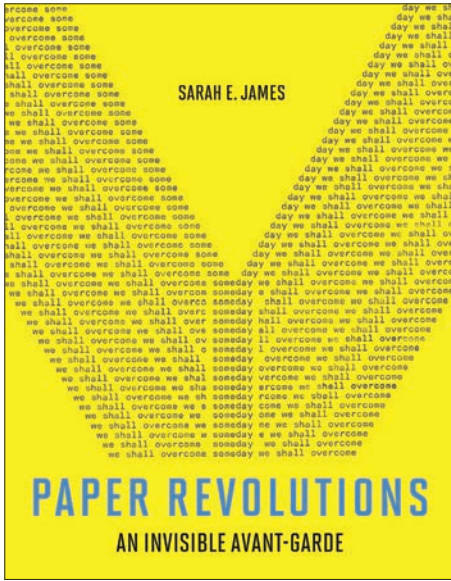
architecture

March | 6 3/4 x 9 3/4, 416 pp. | 474 illus.

US \$59.95T/\$78.95 CAN paper

978-0-262-54338-5





Paper Revolutions

An Invisible Avant-Garde

Sarah E. James

The experimental practices of a group of artists in the former East Germany upends assumptions underpinning Western art's postwar histories.

In *Paper Revolutions*, Sarah James offers a radical rethinking of experimental art in the former East Germany (the GDR). Countering conventional accounts that claim artistic practices in the GDR were isolated and conservative, James introduces a new narrative of neo-avantgarde practice in the Eastern Bloc that subverts many of the assumptions underpinning Western art's postwar histories. She grounds her argument in

the practice of four artists who, uniquely positioned outside academies, museums, and the art market, as they functioned in the West, created art in the blind spots of state censorship. They championed ephemeral practices often marginalized by art history: postcards and letters, maquettes and models, portfolios and artists' books. Through their "lived modernism," they produced bodies of work animated by the radical legacies of the interwar avant-garde.

James examines the work and daily practices of the constructivist graphic artist, painter, and sculptor Hermann Glöckner; the experimental graphic artist and concrete and sound poet Carlfriedrich Claus; the mail artist, concrete poet, and conceptual artist Ruth Wolf-Rehfeldt; and the mail artist, "visual poet," and installation artist Karla Sachse. She shows that all of these artists rejected the idea of art as a commodity or a rarefied object, and instead believed in the potential of art to create collectivized experiences and change the world. James argues that these artists, entirely neglected by Western art history, produced some of the most significant experimental art to emerge from Germany during the Cold War.

Sarah E. James, an art historian and writer, is the author of *Common Ground: German Photographic Cultures Beyond the Iron Curtain*. Currently a Gerda Henkel Professorial Fellow in Frankfurt am Main, she was Associate Professor in History of Art at University College London and Lecturer at the University of Oxford.

art
 March | 7 x 9, 384 pp. | 103 color illus., 10 b&w illus.
US \$34.95T/\$45.95 CAN cloth
 978-0-262-04656-5

"This fascinating study exposes a lifeworld of intimate and sustaining vanguard artistic exchanges that thrived in unofficial corners of the East German regime. Sidestepping tired Cold War narratives of East German art, Sarah James's poignant account also situates these objects and exchanges within a legacy of Marxist utopianism that surfaced in the German Weimar Republic and continues to resurface in imaginings of a better world today."

—Barbara McCloskey, Professor of Art History, University of Pittsburgh; author of *The Exile of George Grosz: Modernism, America, and the One World Order*

Parallel Public

Experimental Art in Late East Germany

Sara Blaylock

How East German artists made their country's experimental art scene a form of (counter) public life.

Experimental artists in the final years of the German Democratic Republic did not practice their art in the shadows, on the margins, hiding away from the Stasi's prying eyes. In fact, as Sara Blaylock shows, many cultivated a critical influence over the very bureaucracies meant to keep them in line, undermining state authority through forthright rather than covert projects. In *Parallel Public*, Blaylock describes how some East German artists made their country's experimental art scene a form of (counter) public life, creating an alternative to the crumbling collective underpinnings of the state.

Blaylock examines the work of artists who used body-based practices—including performance, film, and photography—to create new vocabularies of representation, sharing their projects through independent networks of dissemination and display. From the collective films and fashion shows of Erfurt's Women Artists Group, which fused art with feminist political action, to Gino Hahnemann, the queer filmmaker and poet who set nudes alight in city parks, these creators were as bold in their ventures as they were indifferent to state power.

Parallel Public is the first work of its kind on experimental art in East Germany to be written in English. Blaylock draws on extensive interviews with artists, art historians, and organizers; artist-made publications; official reports from the Union of Fine Artists; and Stasi surveillance records. As she recounts the role culture played in the GDR's rapid decline, she reveals East German artists as dissenters and witnesses, citizens and agents, their work both antidote for and diagnosis of a weakening state.

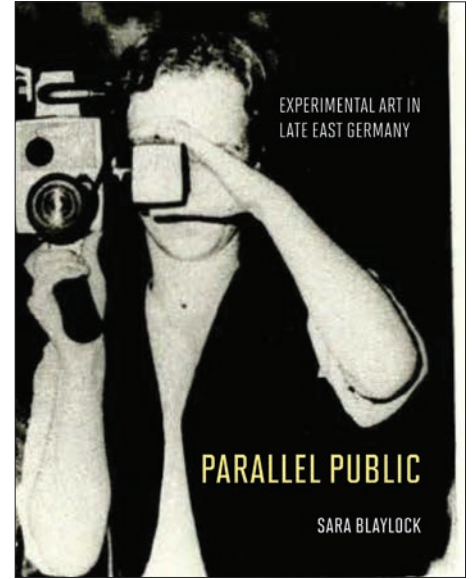
Sara Blaylock is Assistant Professor of Art History at the University of Minnesota Duluth.

art

February | 7 x 9, 328 pp. | 81 illus.

US \$34.95T/\$45.95 CAN cloth

978-0-262-04663-3



“Sara Blaylock’s pioneering book moves beyond the idea that art in the GDR was monolithic, isolated, or secretive. Instead of merely reacting to state power, the performance-based artworks presented in this highly readable study suggest forms of being and working together that echo the ethical and political commitments that once, long ago, accompanied the GDR’s foundation.”

—Sven Spieker, University of California, Santa Barbara

Stalin's Architect

Power and Survival in Moscow

Deyan Sudjic

The story of Boris Iofan—designer of the iconic but unbuilt Palace of the Soviets—whose buildings came to define the language of Soviet architecture.

The story of Boris Iofan (1891–1976), state architect to Joseph Stalin, is a story about architecture, politics, and power, and in *Stalin's Architect*, Deyan Sudjic offers the first major account of Iofan's remarkable life and career. Iofan's buildings came to define the language of Soviet architecture; his most famous design was the iconic—but unbuilt—Palace of the Soviets, 1,400 feet high and topped with a figure of Lenin bigger than the Statue of Liberty. Iofan won a design competition for the Palace in 1933 (other competitors included Le Corbusier) and spent the next twenty years taking notes from Stalin on how to make it ever more grandiose. Sudjic describes how Iofan managed to survive Stalin's reign, dying in his bed at 84—unlike many other Stalin enablers.

Sudjic chronicles the endless jockeying for position and compromises required to remain in Stalin's good graces. Iofan was prepared to build what the dictator demanded. Living in luxury in one of his own buildings—the House on the Embankment, a megastructure for Soviet elite—Iofan knew that the price of disobedience could range from losing one's apartment to losing one's life. Many archival images, including Iofan's non-Stalin work, accompany Sudjic's insightful text. *Stalin's Architect* offers a unique perspective on the politics of twentieth-century architecture and the history of the Soviet Union.

Deyan Sudjic, former Director of the Design Museum in London and architecture critic for the *Observer*, is the author *The Edifice Complex: The Architecture of Power* and other books.

architecture

May | 6 x 9 1/4, 320 pp. | 80 illus.

US \$39.95T/\$53.95 CAN cloth

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For sale in North America only

On Bramante

Pier Paolo Tamburelli

A new interpretation of the work of Bramante, suggesting an agenda for contemporary architectural practice.

In *On Bramante*, architect Pier Paolo Tamburelli considers the work of the celebrated Italian Renaissance architect Donato Bramante and through this suggests a possible agenda for current architectural practice. Bramante, Tamburelli argues, offers an excellent starting point to imagine a contemporary theory of space, to reflect on the relationship between architecture and politics, and to look back—with neither nostalgia nor contempt—at the tradition of Western classicism.

Starting from a discussion of the difference in the work of Bramante in Milan (1481–1499) and Rome (1499–1514), Tamburelli highlights the peculiarities of Bramante’s architecture, especially in comparison to that of his predecessor Leon Battista Alberti and successor Andrea Palladio. This in turn opens up new possibilities for appreciating his spatial experiments, and to derive from Bramante’s abstraction and disassociation of form from function a revised theory of space for contemporary architecture. Such a theory might even advance a newfound political understanding of classicism, and a model—perhaps more valid now than ever before—for a public architecture.

The text is bookended by a series of color photographic plates of Bramante’s works by photographer Bas Princen.

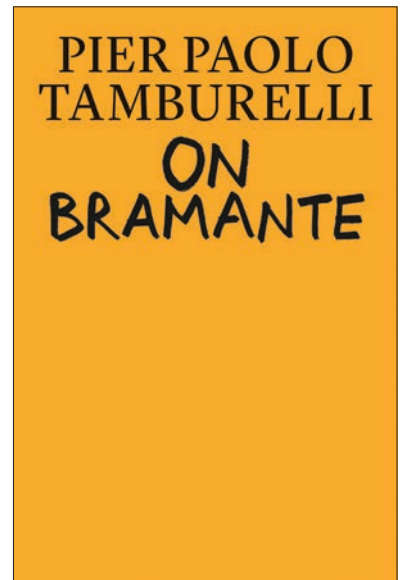
Pier Paolo Tamburelli is an architect. One of the founding partners of baukuh and a former editor of *San Rocco*, he currently holds the Chair of Design Theory at the Technical University of Vienna.

architecture

March | 6 x 9, 348 pp. | 32 color plates, 43 b&w illus.,

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Perspecta 54

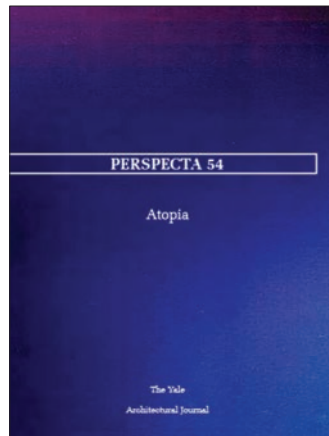
Atopia

The Yale Architectural Journal

edited by Melinda Agron, Timon Covelli,
Alexis Kandel, and David Langdon

Atopia as both the site of architecture's critical confrontation with hegemonic systems and the theoretical space in which its own processes can be challenged.

A literal no-place, atopia represents the spatial end-product of a society seemingly flattened by supra-territorial flows of information and material. It expresses both a physical artifact and condition of mass culture, and like the global systems of production and consumption from which it is conceived, atopia is both nowhere and everywhere at once. For the contributors to *Perspecta 54*, the ephemeral conditions of atopia are also an invitation to an equally unconstrained critical practice. Blurred boundaries—geopolitical, virtual, technical, disciplinary—offer sites for transgressive speculation and critique from beyond the limits of traditional design agency.



What results is a form of design practice that ambiguously straddles impossibility and hyperreality. Atopia rejects both the escapist fantasy of utopia and the nihilism of dystopia, favoring instead a conceptual middle ground from which real-world conditions can be productively engaged and challenged. Architecture's traditional objectives of critical inquiry—particularly the location of modes of complicity, agency, and resistance within larger structures—are mediated and reframed through nontraditional strategies of speculative design and fiction. From urban crises and climate emergencies to border disputes and geopolitics, *Perspecta 54* examines atopia as both the site of architecture's critical confrontation with hegemonic systems and the theoretical space in which its own processes can be challenged.

Melinda Agron, Timon Covelli, Alexis Kandel, and David Langdon are all graduates of Yale School of Architecture.

architecture

February | 9 x 12, 272 pp. | 148 illus.

US \$29.95T/\$39.95 CAN paper
978-0-262-54381-1

Hollis Frampton

edited by Michael Zryd

The first collection of critical writing on the work of experimental filmmaker Hollis Frampton.

Hollis Frampton (1936–1984) was one of the most important experimental filmmakers and theorists of his



time, and in his navigation of artistic media and discourses, he anticipated the multimedia boundary blurring of today's visual culture. Indeed, his photography continues to be exhibited, and a digital edition of his films was issued by the Criterion Collection. This book offers the first collection of critical writings on Frampton's work. It complements *On the Camera Arts and Consecutive*

Matter, published in the MIT Press's Writing Art series, which collected Frampton's own writings.

October was as central to Frampton as he was to it. He was both a frequent contributor—appearing in the first issue in 1976—and a frequent subject of contributions by others. Some of these important and incisive writings on Frampton's work are reprinted here. The essays collected in this volume consider Frampton's photographic practice, which continued even after he turned to film; survey his film work from the 1960s to the late 1970s; and explore Frampton's grounding in poetics and language. Two essays by the late Annette Michelson, one of the twentieth century's most influential writers on experimental film, place Frampton in relation to film and art history.

Michael Zryd is Associate Professor at the Department of Cinema and Media Arts at York University in Toronto.

art | film

March | 6 x 9, 304 pp. | 60 illus.

US \$29.95T/\$39.95 CAN paper
978-0-262-54357-6

October Files series

Gerhard Richter

Painting after the Subject of History

Benjamin H. D. Buchloh

The first full-scale monographic study in English of one of the most important artists of the second half of the twentieth century.

In this first full-scale monograph in English on the German painter Gerhard Richter, the distinguished art historian Benjamin H. D. Buchloh maps the unfolding of Richter's ever more complex and contradictory lifework. A painter in an age that disdains painting, a German confronting the impossibility of representing the historical trauma inflicted by his country upon the world between 1933 and 1945, a European artist in dialogue with his American counterparts, Richter (b. 1932) is shown by Buchloh to be a unique and singular artist, outside and beyond every other formation contemporaneous with his own development and evolution.

What emerges from Buchloh's detailed analysis of Richter's key works is a far more complex set of painterly strategies than has been previously assumed, strategies that have inverted and relativized all the principles of the modernist and even the postmodernist painterly aesthetic. Richly illustrated in color, dense with insights that represent half a lifetime of engagement with Richter's work, this book will stand as the definitive, essential examination of a major contemporary artist.

Benjamin H. D. Buchloh is Andrew W. Mellon Professor of Modern Art at Harvard University. He is the author of *Neo-Avantgarde and Culture Industry: Essays on European and American Art from 1955 to 1975* and *Formalism and Historicity: Models and Methods in Twentieth-Century Art*, both published by the MIT Press. He received the Golden Lion for Contemporary Art History and Criticism at the Venice Biennale in 2007.

art

May | 7 x 9, 704 pp. | 235 illus.

US \$49.95T/\$65.95 CAN paper

978-0-262-54353-8

An October Book

THE MIT PRESS ESSENTIAL KNOWLEDGE SERIES

The MIT Press Essential Knowledge series offers accessible, concise, beautifully produced books on topics of current interest. Written by leading thinkers, the books in this series deliver expert overviews of subjects that range from the cultural and the historical to the scientific and the technical. In today's era of instant information gratification, we have ready access to opinions, rationalizations, and superficial descriptions. Much harder to come by is the foundational knowledge that informs a principled understanding of the world. Essential Knowledge books fill that need. Synthesizing specialized subject matter for nonspecialists and engaging critical topics through fundamentals, each of these compact volumes offers readers a point of access to complex ideas.

Content

Kate Eichhorn

A concise introduction to content and the content industry, from the early internet to the Instagram egg.

From the time we roll out of bed to check overnight updates to our last posts, likes, and views of the previous day, we're consuming and producing content. But what does the term "content" even mean? When did it become ubiquitous? And at what cost? In this volume in the MIT Press Essential Knowledge series, Kate Eichhorn offers a concise introduction to content and the content industry, examining the far-reaching effects content has on culture, politics, and labor in a digital age.



Eichhorn traces the evolution of our current understanding of content from the early internet to the current social mediaverse. The quintessential example of content, she says, is the Instagram egg—an image that imparted no information or knowledge and circulated simply for the sake of circulation. Eichhorn explores what differentiates user-generated content from content produced by compensated (although often undercompensated) workers; examines how fields from art and literature to journalism and politics have weathered the rise of the content industry; and investigates the increasing importance of artists' "content capital"—the ability of artists, writers, and performers to produce content not about their work but about their status as artists.

Kate Eichhorn is Associate Professor and Chair of Culture and Media Studies at The New School. She is the author of *The End of Forgetting: Growing Up with Social Media*, *Adjusted Margin: Xerography, Art and Activism in the Late Twentieth Century* (MIT Press), and *The Archival Turn in Feminism*.

media studies

May | 5 x 7, 192 pp. | 5 illus.

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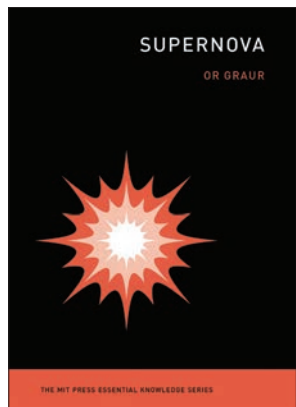
The MIT Press Essential Knowledge series

Supernova

Or Graur

A concise introduction to the history and physics of supernovae, the brilliant explosions of stars; with striking color illustrations.

Supernovae are the explosions of stars. They are some of the most energetic phenomena in the Universe, rivaling the combined light of billions of stars. Supernovae have been studied for centuries, and they have also made appearances in popular culture: a glimpse of a supernova in a painting provides Sherlock Holmes with a crucial clue, for example. In this volume in the MIT Press Essential Knowledge series, astrophysicist Or Graur offers a concise and accessible introduction to these



awe-inspiring astronomical phenomena.

Graur explains that a deep observational understanding of supernovae—why and how they shine and how their brightness changes over time—allows us to use them as tools for experiments in astrophysics and physics. A certain type of supernova, for example, brightens and fades in such a predictable manner that we can measure the distances to their host galaxies. We owe our existence to supernovae—they give us iron for our blood and calcium for our bones. But supernovae may also have caused a mass extinction event on Earth 2.6 million years ago.

Graur shows how observations of supernovae played a role in the transformation of astronomy from astrology to astrophysics; surveys the tools used to study supernovae today; and describes the lives and deaths of stars and the supernova remnants, neutron stars, and black holes they leave behind. Illustrations in both color and black and white, many from Graur's own Hubble Space Telescope data, make this account of supernovae particularly vivid.

Or Graur is Senior Lecturer in Astrophysics at the University of Portsmouth's Institute of Cosmology and Gravitation.

science | astronomy

February | 5 x 7, 240 pp. | 8 color plates, 20 b&w illus.

US \$16.95T/\$22.95 CAN paper

978-0-262-54314-9

The MIT Press Essential Knowledge series

Nuclear Weapons

Mark Wolverton

A primer on nuclear weapons, from the science of fission and fusion to the pursuit of mutual assured destruction, the SALT treaties, and the Bomb in pop culture.

Although the world's attention has shifted to drone-controlled bombing and cyberwarfare, the threat of nuclear war still exists. There are now fourteen thousand nuclear weapons in the hands of the nine declared nuclear powers. Even though the world survived the Cold War, we need to understand what it means to live with nuclear weapons. In this volume in the MIT Press Essential Knowledge series, Mark Wolverton offers a primer on nuclear weapons, from the science of fission and fusion to the pursuit of mutual assured destruction, the SALT and START agreements, and the Bomb in pop culture.

Wolverton explains the basic scientific facts, offers historical perspective, and provides a nuanced view of the unique political, social, and moral dilemmas posed by nuclear weapons. He describes the birth of the Bomb in 1945 and its use against the Japanese cities of Hiroshima and Nagasaki; explains how a nuclear bomb works; recounts episodes when the world came close to waging nuclear war, including the Cuban missile crisis in 1962; discusses nuclear policy and nuclear treaties; and traces the influence of such films as *On the Beach*, *Dr. Strangelove*, and *The Day After*.

Mark Wolverton is a science writer and the author of *Burning the Sky: Operation Argus and the Untold Story of the Cold War Nuclear Tests in Outer Space*, *A Life in Twilight: The Final Years of J. Robert Oppenheimer*, and *The Depths of Space: The Story of the Pioneer Planetary Probes*. His journalism has appeared in *WIRED*, *Nature*, *Undark*, *Scientific American*, *Air & Space Smithsonian*, and other publications.

history | technology

February | 5 x 7, 280 pp. | 12 illus.

US \$16.95T/\$22.95 CAN paper

978-0-262-54331-6

The MIT Press Essential Knowledge series

Neurolinguistics

Giosuè Baggio

An accessible introduction to the study of language in the brain, covering language processing, language acquisition, literacy, and language disorders.

Neurolinguistics, the study of language in the brain, describes the anatomical structures (networks of neurons in the brain) and physiological processes (ways for these networks to be active) that allow humans to learn and use one or more languages. It draws on neuroscience, linguistics—particularly theoretical linguistics—and other disciplines. In this volume in the MIT Press Essential Knowledge series, Giosuè Baggio offers an accessible introduction to the fundamentals of neurolinguistics, covering language processing, language acquisition, literacy, and speech and language disorders.

Baggio first surveys the evolution of the field, describing discoveries by Paul Broca, Carl Wernicke, Noam Chomsky, and others. He discusses mapping language in “brain time” and “brain space” and the constraints of neurolinguistic models. Considering language acquisition, he explains that a child is never a “blank slate”: infants and young children are only able to acquire specific aspects of language in specific stages of cognitive development. He addresses the neural consequences of bilingualism; literacy, discussing how forms of visual language in the brain differ from forms of auditory language; aphasia and the need to understand language disorders in behavioral, functional, and neuroanatomical terms; neurogenetics of language; and the neuroethology of language, tracing the origins of the neural and behavioral building blocks of human linguistic communication to the evolution of avian, mammalian, and primate brains.

Giosuè Baggio is Professor of Psycholinguistics at the Norwegian University of Science and Technology in Trondheim, Norway, and the author of *Meaning in the Brain* (MIT Press).

psychology | linguistics
May | 5 x 7, 224 pp. | 8 illus.

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The MIT Press Essential Knowledge series

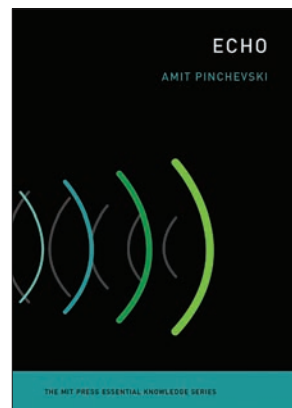


Echo

Amit Pinchevski

An exploration of echo not as simple repetition but as an agent of creative possibilities.

In this volume in the MIT Press Essential Knowledge series, Amit Pinchevski proposes that echo is not



simple repetition and the reproduction of sameness but an agent of change and a source of creation and creativity. Pinchevski views echo as a medium, connecting and mediating across and between disparate domains. He reminds us that the mythological Echo, sentenced by Juno to repeat the last words

of others, found a way to make repetition expressive. So too does echo introduce variation into sameness, mediating between self and other, inside and outside, known and unknown, near and far. Echo has the potential to bring back something unexpected, either more or less than what was sent.

Pinchevski distinguishes echo from the closely related but sometimes conflated reflection, reverberation, and resonance; considers echolalia as an active, reactive, and creative vocalic force, the launching pad of speech; and explores echo as a rhetorical device, steering between appropriation and response while always maintaining relation. He examines the trope of echo chamber and both destructive and constructive echoing; describes various echo techniques and how echo can serve practical purposes from echolocation in bats and submarines to architecture and sound recording; explores echo as a link to the past, both literally and metaphorically; and considers echo as medium using Marshall McLuhan’s tetrad.

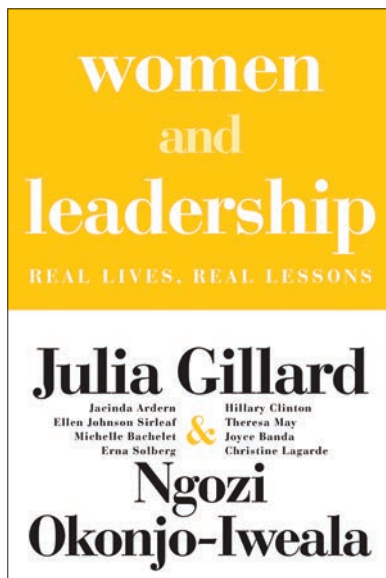
Amit Pinchevski is Associate Professor in the Department of Communication and Journalism at the Hebrew University of Jerusalem. He is the author of *By Way of Interruption: Levinas and the Ethics of Communication* and *Transmitted Wounds: Media and the Mediation of Trauma*.

science | literature
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Women and Leadership

Real Lives, Real Lessons

Julia Gillard and Ngozi Okonjo-Iweala

A powerful call to action for achieving equality in leadership.

Women make up fewer than ten percent of national leaders worldwide, and behind this eye-opening statistic lies a pattern of unequal access to power. Through conversations with some of the world's most powerful and interesting women—including Jacinda Ardern, Hillary Rodham Clinton, Christine Lagarde, Michelle Bachelet, and Theresa May—*Women and Leadership* explores gender bias and asks why there aren't more women in leadership roles. The result is a rare insight into life as a leader and a powerful call to arms for women everywhere.

Julia Gillard was the 27th Prime Minister of Australia, serving from 2010 to 2013. **Ngozi Okonjo-Iweala** is the Director General of the World Trade Organization (WTO), the first woman and first African to hold the position. An economist and international development expert with more than forty years of experience, she served as Nigeria's first female and longest serving Finance Minister (seven years). She was also the first female Foreign Minister in 2006 and Managing Director of the World Bank from 2007 to 2011. She was Chair of the Board of Gavi, the Vaccine Alliance (2016–2020), the African Risk Capacity (2014–2020), and Cochair of the Global Commission on the Economy and Climate. She is the author of *Reforming the Unreformable* and *Fighting Corruption Is Dangerous* (both published by the MIT Press).

politics | women's studies

March | 6 x 9, 336 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54382-8

cloth

978-0-262-04574-2

"A powerful reminder that there is no limit to what women can accomplish when we have the chance."

—Madeline Albright, former U.S. Secretary of State

"This remarkable exploration into women leaders—and why there aren't more of them—is an indispensable guide to addressing sexism and overcoming inequities."

—Ms.

"Much-needed, frank talk from exceptional female leaders about how they've dealt with sexism in the line of duty."

—Kirkus Reviews (starred review)

"Full of practical advice and insights into the careers of a diverse and impressive array of women, this is a valuable handbook for putting more women in positions of power."

—Publishers Weekly

Too Much Information

Understanding What You Don't Want to Know

Cass R. Sunstein

How information can make us happy or miserable, and why we sometimes avoid it and sometimes seek it out.

In *Too Much Information*, Cass Sunstein examines the effects of information on our lives. Policymakers emphasize “the right to know,” but Sunstein takes a different perspective, arguing that the focus should be on human well-being and what information contributes to it. Government should require companies, employers, hospitals, and others to disclose information not because of a general “right to know” but when the information in question would significantly improve people’s lives.

Sunstein finds that people avoid information if they think it will make them sad (and seek information they think will make them happy). Of course, says Sunstein, we are better off with stop signs, warnings on prescription drugs, and reminders about payment due dates. But sometimes less is more. What we need is more clarity about what information is actually doing or achieving.

Cass R. Sunstein is Robert Walmsley University Professor at Harvard Law School and Chair of the Technical Advisory Group on Behavioral Insights and Sciences at the World Health Organization. He is the author of *The Cost-Benefit Revolution*, *How Change Happens*, *Sludge* (all published by the MIT Press), *Nudge: Improving Decisions about Health, Wealth, and Happiness* (with Richard H. Thaler), and other books.

political science | economics

February | 5 3/8 x 8, 264 pp. | 5 illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54391-0

cloth

978-0-262-04416-5

“Intellectually exhilarating.”

—**Steven Pinker, author of *Enlightenment Now***

“A tour of human biases that end up creating ‘behavioral market failures.’”

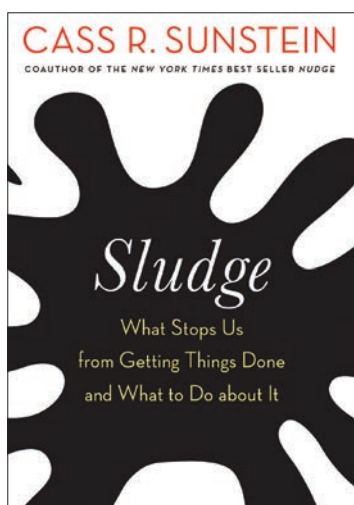
—**New York Times Book Review**

“Sunstein writes in clear, accessible language throughout. This balanced and well-informed take illuminates an obscure but significant corner of government policy making.”

—**Publishers Weekly**

“An accessible treatise on the need to ensure that information improves citizens’ well-being.”

—**Kirkus Reviews**



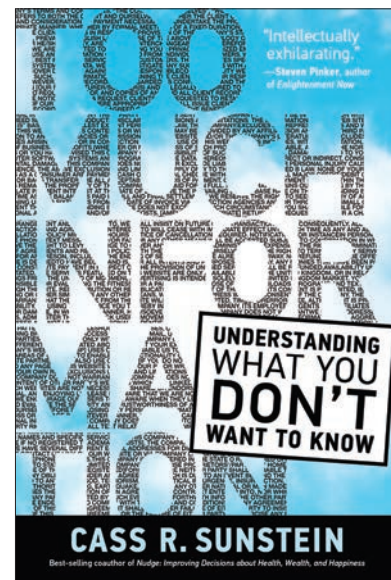
Also available

Sludge

Cass R. Sunstein

US \$24.95T/\$33.95 CAN cloth

978-0-262-04578-0





The Next 500 Years

Engineering Life to Reach New Worlds

Christopher E. Mason

An argument that we have a moral duty to explore other planets and solar systems—because human life on Earth has an expiration date.

Inevitably, life on Earth will come to an end. To avoid extinction, we will have to find a new home planet, perhaps even a new solar system, to inhabit. In this provocative and fascinating book, Christopher Mason argues that we have a moral duty to do just that. As the only species aware that life on Earth has an expiration date, we have a responsibility to act as the shepherd of life-forms—not only for our species but for all species on which we depend and for those still to come. Mason argues that the same capacity for ingenuity that has enabled us to build rockets and land on other planets can be applied to redesigning biology so that we can sustainably inhabit those planets. He lays out a 500-year plan for undertaking the massively ambitious project of reengineering human genetics for life on other worlds, including a roadmap of which solar systems to visit first, merging biotechnology, philosophy, and genetics to offer an unparalleled vision of the universe to come.

Christopher E. Mason is a geneticist and computational biologist who has been a Principal Investigator and Co-investigator of 11 NASA missions and projects. He is Professor at Weill Cornell Medicine, with affiliate appointments at the Meyer Cancer Center, Memorial Sloan Kettering Cancer Center, and the Consortium for Space Genetics at Harvard Medical School.

science

April | 6 x 9, 296 pp. | 16 color illus., 24 b&w illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54384-2

cloth

978-0-262-04440-0

“An inspiring vision of the next 500 years of spaceflight and human exploration.”

—**Astronaut Scott Kelly, author of *Endurance***

“Readers looking for science writing that sees bold possibilities in the future will be enthralled.”

—***Publishers Weekly***

“Provocative.”

—***Bloomberg***

CRISPR People

The Science and Ethics of Editing Humans

Henry T. Greely

What does the birth of babies whose embryos have gone through genome editing mean—for science and for all of us?

In November 2018, the world was shocked to learn that two babies had been born in China with DNA edited while they were embryos—as dramatic a development in genetics as the 1996 cloning of Dolly the sheep. In this book, Hank Greely tells the fascinating story of this human experiment and its consequences. Greely explains what Chinese scientist He Jiankui did, how he did it, and how the public and other scientists learned about and reacted to this unprecedented genetic intervention.

The two babies, nonidentical twin girls, were the first “CRISPR’d” people ever born (CRISPR, Clustered Regularly Interspaced Short Palindromic Repeats, is a powerful gene-editing method). Greely considers the lessons to be drawn both from these CRISPR’d babies and, more broadly, from “germline editing” that can be passed on from one generation to the next. He doesn’t mince words, describing He’s experiment as grossly reckless, irresponsible, immoral, and illegal. We should consider the implications carefully before we proceed.

Henry T. Greely is Professor of Law; Professor, by courtesy, of Genetics; and Director of the Stanford Center for Law and the Biosciences at Stanford University, where he also chairs the Steering Committee of the Stanford University Center for Biomedical Ethics and directs the Stanford Program in Neuroscience and Society.

science

February | 5 3/8 x 8, 400 pp.

US \$19.95T/\$25.95 CAN paper

978-0-262-54388-0

cloth

978-0-262-04443-1

“An exquisite view of the wide-ranging issues at play.”

— **Science**

“An accessible, clearly written, fact-filled analysis of a new biological frontier.”

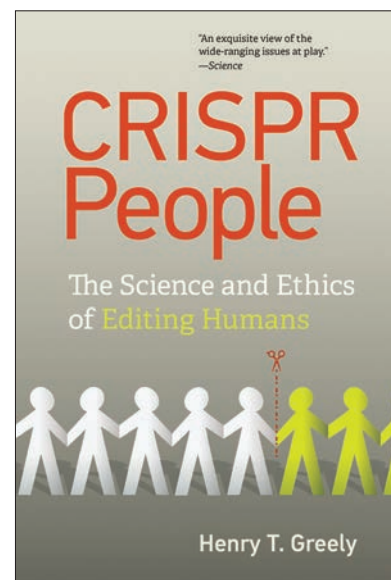
— **Washington Post**

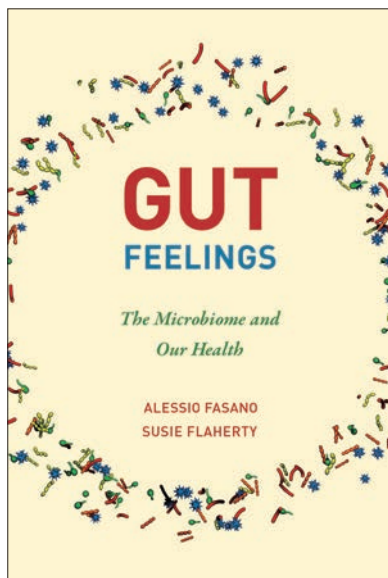
“Lays out in lawyerly detail the big questions now facing the future of CRISPR technology.”

— **Wired**

“A serious and scholarly work.”

— **The Economist**





Gut Feelings

The Microbiome and Our Health

Alessio Fasano and Susie Flaherty

Why the microbiome—our rich inner ecosystem of microorganisms—may hold the keys to human health.

Our understanding of how to treat and prevent diseases has been transformed by knowledge of the microbiome. In *Gut Feelings*, Alessio Fasano and Susie Flaherty show why we must go beyond the older, myopic view of microorganisms as our enemies to a broader understanding of the microbiome as a parallel civilization that we need to understand, respect, and engage with for the benefit of our own health.

Exploring the microbiome's part in gut inflammatory disorders, obesity, neurological conditions, cancer, and immune function, Fasano and Flaherty show that we can enlarge—and perhaps reinvent—our understanding of how to combat disease and maintain health.

Alessio Fasano is the W. Allan Walker Chair of Pediatric Gastroenterology and Nutrition at Massachusetts General Hospital (MGH), Professor of Pediatrics at Harvard Medical School, and Professor of Nutrition at the Harvard T. H. Chan School of Public Health. He is also Founder and Director of the Center for Celiac Research and Treatment at MGH. Award-winning writer and editor **Susie Flaherty** is Director of Communications at the Center for Celiac Research and Treatment. Fasano and Flaherty are also the authors of *Gluten Freedom*.

health and fitness

March | 5 3/8 x 8, 552 pp. | 9 illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54383-5

cloth

978-0-262-04427-1

“The microbiome revolution proves the old adage that ‘you are what you eat.’ In *Gut Feelings*, Fasano and Flaherty provide a comprehensive and compelling portrait of the ‘bugs’ that shape us from early childhood through old age and their role in human health.”

—Mark Hyman, *New York Times* best-selling author of *Food Fix*; Head of Strategy and Innovation at the Cleveland Clinic Center for Functional Medicine

Tomorrow's Economy

A Guide to Creating Healthy Green Growth

Per Espen Stoknes

foreword by Paul Hawken

A balance sheet for the planet: How we can achieve healthy growth—more regenerative than wasteful, instilling equity rather than exacerbating inequalities.

In *Tomorrow's Economy*, Per Espen Stoknes reframes the hot-button issue of economic growth. Going beyond the usual pro-growth versus anti-growth debate, Stoknes calls for healthy growth. Healthy economic growth is more regenerative than wasteful, repairs problems rather than greenwashing them, and restores equity rather than exacerbating inequalities. Stoknes—a psychologist, economist, climate strategy researcher, and green-tech entrepreneur—shows that we already have the tools to achieve healthy growth, but our success depends on transformations in scaling innovations, government practices, and individual behaviors. Stoknes provides a compass to guide us toward the mindset, mechanisms, and possibilities of healthy growth.

Stoknes distinguishes between healthy and unhealthy kinds of economic growth at personal, corporate, city, national, and global levels, mapping a three-part synergy that benefits buyers, sellers, and society. He outlines actions we can take now—including the creation of a new legal entity, the benefit corporation—and lays out six steps companies can take toward healthy growth. He also describes how we can vote with our wallets to prioritize sustainability. The engaged citizen, he tells us, is central to the shift toward healing growth.

Per Espen Stoknes is Director of the Center for Sustainability and Energy at the Norwegian Business School in Oslo. His award-winning book *What We Think About When We Try Not to Think About Global Warming* became the focus of a TED Talk with more than three million views.

business | economics

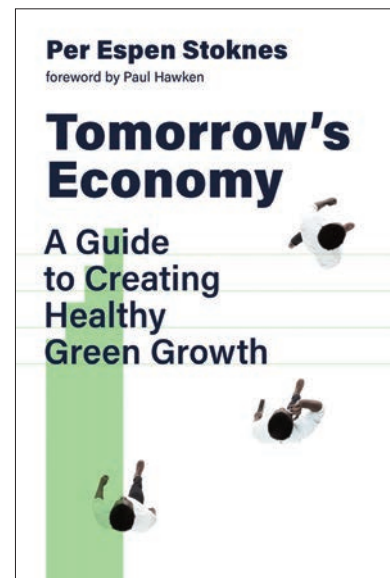
March | 6 x 9, 384 pp. | 32 illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54385-9

cloth

978-0-262-04485-1



“Unusually well informed, balanced and rewarding.”

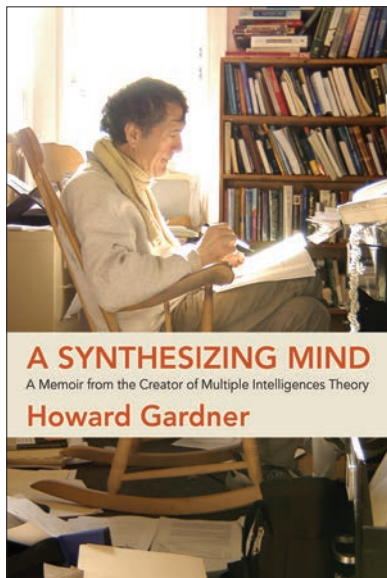
— **Nature**

“Highly recommended.”

— **Enrique Dans, Forbes**

“Stoknes’s growth compass is a crucial tool to guide us toward a finer future.”

— **Hunter Lovins, coauthor of Natural Capitalism**



A Synthesizing Mind

A Memoir from the Creator of Multiple Intelligences Theory

Howard Gardner

An authority on the human mind reflects on his intellectual development, his groundbreaking work, and different types of intelligences—including his own.

Howard Gardner's *Frames of Mind* was that rare publishing phenomenon—a mind-changer. This influential book laid out Gardner's theory of multiple intelligences. It debunked the primacy of the IQ test and inspired new approaches to education; entire curricula, schools, museums, and parents' guides were dedicated to the nurturing of the several intelligences. In his new book, *A Synthesizing Mind*, Gardner reflects on his intellectual development and his groundbreaking work, tracing his evolution from bookish child to eager college student to disengaged graduate student to Harvard professor.

Throughout his career, Gardner has focused on human minds in general, or on the minds of particular creators and leaders. Reflecting now on his own mind, he concludes that his is a "synthesizing mind"—with the ability to survey experiences and data across a wide range of disciplines and perspectives. Gardner contends that the synthesizing mind is particularly valuable today and proposes ways to cultivate a possibly unique human capacity.

Howard Gardner is John H. and Elisabeth A. Hobbs Research Professor of Cognition and Education at the Harvard Graduate School of Education. Best known as the originator of the theory of multiple intelligences, he is the author of thirty books, including *Frames of Mind: The Theory of Multiple Intelligences*; *Truth, Beauty, and Goodness Reframed*; and *The App Generation* (with Katie Davis).

biography | education

March | 5 3/8 x 8 x 0.7500, 304 pp. | 30 illus.

US \$19.95T/\$25.95 CAN paper

978-0-262-54283-8

cloth

978-0-262-04426-4

"It's a cause for celebration that one of our most influential living psychologists has trained his insight onto his own life and work."

—**Steven Pinker**

"An easy and worthwhile read."

—**Washington Post**

"An insightful memoir from an eminent psychologist."

—**Kirkus Review**

The Infinite Playground

A Player's Guide to Imagination

Bernard De Koven

with Holly Gramazio

edited by Celia Pearce and Eric Zimmerman

A play-centered invitation to experience the power and delight unlocked by imagination.

Bernard De Koven (1941–2018) was a pioneering designer of games and theorist of fun. He studied games long before the field of game studies existed. For De Koven, games could not be reduced to artifacts and rules; they were about a sense of transcendent fun. This book, his last, is about the imagination as a playground, a possibility space, and a gateway to wonder. *The Infinite Playground* extends a play-centered invitation to experience the power and delight unlocked by imagination. It offers a curriculum for playful learning.

De Koven begins with the fundamentals of play, and proceeds through the private imagination, the shared imagination, and imagining the world. Along the way, he reminisces about playing ping-pong with basketball great Bill Russell; begins the instructions for a game called *Reception Line* with “Mill around”; and introduces blathering games—*Blather*, *Group Blather*, *Singing Blather*, and *The Blather Chorale*—that allow the player’s consciousness to meander freely.

Bernard De Koven was a leading game designer and theorist of fun. He was a codirector of the New Games Foundation, a founder of the Games Preserve, the author of the game studies classic *The Well-Played Game: A Player's Philosophy* (MIT Press), *Junkyard Sports*, and *A Playful Path*, and creator of the website deepfun.com.

games

February | 5 3/8 x 8, 208 pp. | 1 illus.

US \$19.95T/\$25.95 CAN paper

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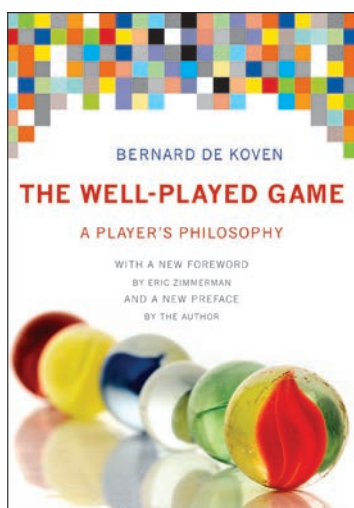
cloth

978-0-262-04407-3



“[A] wonderful book . . . about the shared imaginative spaces that games provide and the ways in which rules and regulations can be altered by players to enhance the experience.”

—*Guardian*



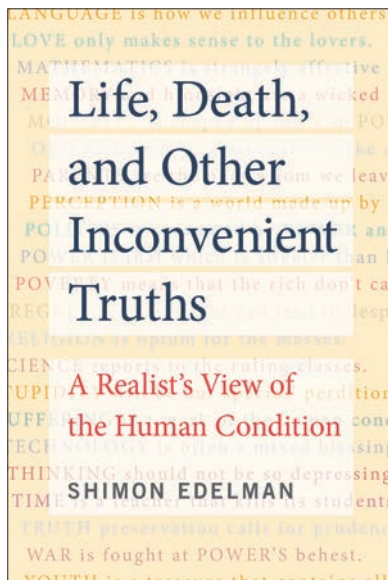
Also available

The Well-Played Game

Bernard De Koven

US \$29.95T/\$39.95 CAN cloth

978-0-262-01917-0



Life, Death, and Other Inconvenient Truths

A Realist's View of the Human Condition

Shimon Edelman

A guide for making sense of life—from action (good except when it's not) to thinking (depressing) to youth (a treasure).

This book offers a guide to human nature and human experience—a reference book for making sense of life. In thirty-eight short, interconnected essays, Shimon Edelman considers the parameters of the human condition, addressing them in alphabetical order, from action (good except when it's not) to love (only makes sense to the lovers) to thinking (should not be so depressing) to youth (a treasure). In a style that is by turns personal and philosophical, at once informative and entertaining, Edelman offers a series of illuminating takes on the most important aspects of living in the world.

Drawing on an eclectic range of sources—quoting from a pre-Islamic Bedouin poem on one page, from Gogol on the next, citing both Borges and Marx—Edelman offers insights into the bright and dark sides of our nature. About anxiety, he observes, “All sentient beings are capable of physiological stress response, but it takes special skills to also do anxiety.” Happiness is “a commodity that Americans pursue with almost as much verve as oil.” All in all, human nature has much room for improvement. Working out ways to improve it, accompanied by this guide, is an exercise for the reader.

Shimon Edelman is Professor of Psychology at Cornell University. He is the author of *Computing the Mind*, *The Happiness of Pursuit*, and other books.

psychology | essays

March | 6 x 9, 336 pp.

US \$16.95T/\$22.95 CAN paper

978-0-262-54278-4

cloth

978-0-262-04435-6

“This work will be welcomed by any reader interested in the complexity of the human condition.”

—**Choice**

Social Engineering

How Crowdmasters, Phreaks, Hackers, and Trolls Created a New Form of Manipulative Communication

Robert W. Gehl and Sean T. Lawson

Manipulative communication—from early twentieth-century propaganda to today’s online con artistry—examined through the lens of social engineering.

The United States is awash in manipulated information about everything from election results to the effectiveness of medical treatments. Corporate social media is an especially good channel for manipulative communication, with Facebook a particularly willing vehicle for it. In *Social Engineering*, Robert Gehl and Sean Lawson show that online misinformation has its roots in earlier techniques: mass social engineering of the early twentieth century and interpersonal hacker social engineering of the 1970s, converging today into what they call “masspersonal social engineering.” As Gehl and Lawson trace contemporary manipulative communication back to earlier forms of social engineering, possibilities for amelioration become clearer.

The authors show how specific manipulative communication practices are a mixture of information gathering, deception, and truth-indifferent statements, all with the instrumental goal of getting people to take actions the social engineer wants them to. Yet the term “fake news,” they claim, reduces everything to a true/false binary that fails to encompass the complexity of manipulative communication or to map onto many of its practices. They pay special attention to concepts and terms used by hacker social engineers, including the hacker concept of “bullshitting,” which the authors describe as a truth-indifferent mix of deception, accuracy, and sociability. They conclude with recommendations for how society can undermine masspersonal social engineering and move toward healthier democratic deliberation.

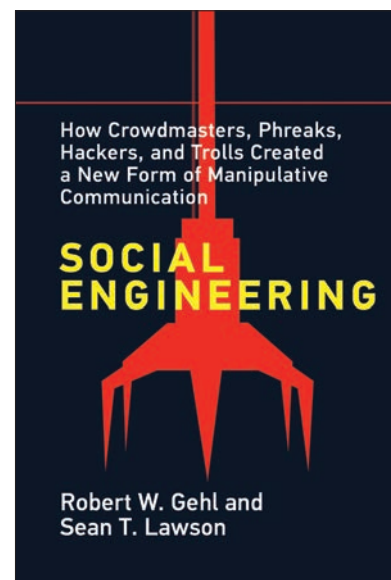
Robert W. Gehl is F. Jay Taylor Endowed Research Chair of Communication at Louisiana Tech University and the author of *Weaving the Dark Web* (MIT Press). **Sean T. Lawson** is Associate Professor of Communication at the University of Utah, Non-Resident Fellow at the Brute Krulak Center for Innovation & Future Warfare at the Marine Corps University, and author of *Cybersecurity Discourse in the United States*.

technology

February | 6 x 9, 344 pp.

US \$28.00X/\$37.00 CAN paper

978-0-262-54345-3





Buy Now

How Amazon Branded Convenience and Normalized Monopoly

Emily West

How Amazon combined branding and relationship marketing with massive distribution infrastructure to become the ultimate service brand in the digital economy.

Amazon is ubiquitous in our daily lives—we stream movies and television on Amazon Prime Video, converse with Alexa, receive messages on our smartphone about the progress of our latest orders. In *Buy Now*, Emily West examines Amazon’s consumer-facing services to investigate how Amazon as a brand grew so quickly and inserted itself into so many aspects of our lives even as it faded into the background, becoming a sort of infrastructure that can be taken for granted. Amazon promotes the comfort and care of its customers (but not its workers) to become the ultimate service brand in the digital economy.

West shows how Amazon has cultivated personalized, intimate relationships with consumers that normalize its outsized influence on our selves and our communities. She describes the brand’s focus on speedy and seamless ecommerce delivery, represented in the materiality of the branded brown box; the positioning of its book retailing, media streaming, and smart speakers as services rather than sales; and the brand’s image control strategies. West considers why pushback against Amazon’s ubiquity and market power has come mainly from among Amazon’s workers rather than its customers or competitors, arguing that Amazon’s brand logic fragments consumers as a political bloc. West’s innovative account, the first to examine Amazon from a critical media studies perspective, offers a cautionary cultural study of bigness in today’s economy.

Emily West is Associate Professor of Communication at the University of Massachusetts Amherst and coeditor of *The Routledge Companion to Advertising and Promotional Culture*.

business | media studies

February | 6 x 9, 328 pp. | 24 illus.

US \$30.00X/\$40.00 CAN paper

978-0-262-54330-9

Distribution Matters series

“West brilliantly documents how the global master of one-click shopping, ubiquitous surveillance, and monopoly power, became a serious threat to democracy, to the climate, and to a humane workplace.”

—**Vincent Mosco, author of *The Smart City in a Digital World***

Beyond Coding

How Children Learn Human Values through Programming

Marina Umaschi Bers

Why children should be taught coding not as a technical skill but as a new literacy—a way to express themselves and engage with the world.

Today, schools are introducing STEM education and robotics to children in ever-lower grades. In *Beyond Coding*, Marina Umaschi Bers lays out a pedagogical roadmap for teaching code that encompasses the cultivation of character along with technical knowledge and skills. Presenting code as a universal language, she shows how children discover new ways of thinking, relating, and behaving through creative coding activities. Today's children will undoubtedly have the technical knowledge to change the world. But cultivating strength of character, socioeconomic maturity, and a moral compass alongside that knowledge, says Bers, is crucial.

Bers, a leading proponent of teaching computational thinking and coding as early as preschool and kindergarten, presents examples of children and teachers using the Scratch Jr. and Kibo robotics platforms to make explicit some of the positive values implicit in the process of learning computer science. If we are to do right by our children, our approach to coding must incorporate the elements of a moral education: the use of narrative to explore identity and values, the development of logical thinking to think critically and solve technical and ethical problems, and experiences in the community to enable personal relationships. Through learning the language of programming, says Bers, it is possible for diverse cultural and religious groups to find points of connection, put assumptions and stereotypes behind them, and work together toward a common goal.

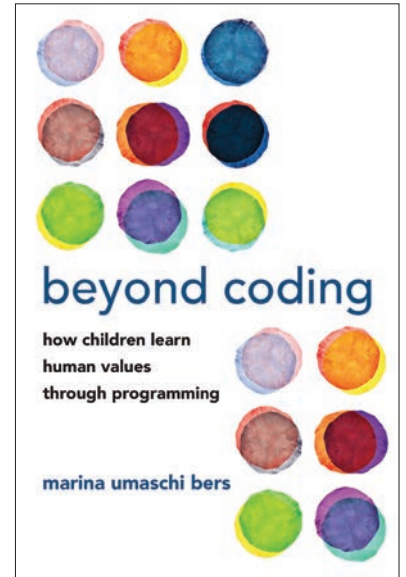
Marina Umaschi Bers is Professor and Chair of the Eliot-Pearson Department of Child Study and Human Development at Tufts University, with a secondary appointment in the Computer Science Department. She directs the interdisciplinary DevTech Research Group.

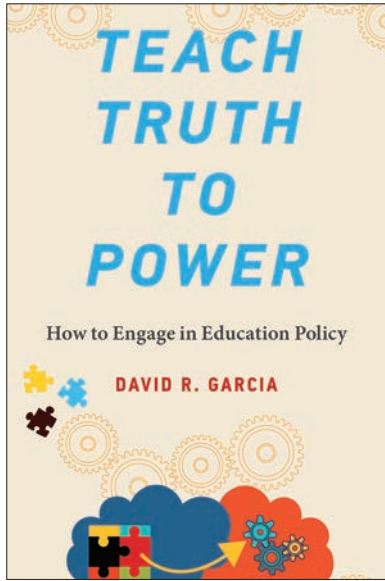
education

March | 6 x 9, 248 pp. | 21 illus.

US \$25.00X/\$34.00 CAN paper

978-0-262-54332-3





Teach Truth to Power

How to Engage in Education Policy

David R. Garcia

How academics and researchers can influence education policy: putting research in a policy context, finding unexpected allies, interacting with politicians, and more.

Scholarly books and journal articles routinely close with policy recommendations. Yet these recommendations rarely reach politicians. How can academics engage more effectively in the policy process? In *Teach Truth to Power*, David Garcia offers a how-to guide for scholars and researchers who want to influence education policy, explaining strategies for putting research in a policy context, getting “in the room” where policy happens, finding unexpected allies, interacting with politicians, and more.

Countering conventional wisdom about research utilization (also referred to as knowledge mobilization), Garcia explains that engaging in education policy is not a science, it is a craft—a combination of acquired knowledge and intuition that must be learned through practice. Engaging in policy is an interpersonal process; academics who hope to influence policy have to get face-to-face with the politicians who create policy. Garcia’s experience as trusted insider, researcher, and political candidate make him uniquely qualified to offer a roadmap that connects research to policy. He explains that academics can leverage their content expertise to build relationships with politicians (even before they are politicians); demonstrates the effectiveness of the research one-pager; and shows how academics can teach politicians to be champions of research.

David R. Garcia is Associate Professor in the Mary Lou Fulton Teachers College at Arizona State University. A former Arizona Associate Superintendent of Public Instruction, he was Arizona’s Democratic candidate for governor in 2018. He is the author of *School Choice*, a volume in the MIT Press Essential Knowledge series.

education | political science

February | 6 x 9, 248 pp. | 8 illus.

US \$30.00X/\$40.00 CAN paper

978-0-262-54322-4

“David Garcia is the perfect person to write this book, and he does so flawlessly. It’s clear, down-to-earth, and informed by academic literature as well as his personal experience bridging the worlds of research and policy practice.”

—**Jeffrey R. Henig, Professor of Political Science and Education, Teachers College, Columbia University; author of *Spin Cycle: How Research Gets Used in Policy Debates***

Design as Democratic Inquiry

Putting Experimental Civics into Practice

Carl DiSalvo

Through practices of collaborative imagination and making, or “doing design otherwise,” design experiments can contribute to keeping local democracies vibrant.

In this counterpoint to the grand narratives of design punditry, Carl DiSalvo presents what he calls “doing design otherwise.” Arguing that democracy requires constant renewal and care, he shows how designers can supply novel contributions to local democracy by drawing together theory and practice, making and reflection. The relentless pursuit of innovation, uncritical embrace of the new and novel, and treatment of all things as design problems, says DiSalvo, can lead to cultural imperialism. In *Design as Democratic Inquiry*, he recounts a series of projects that exemplify engaged design in practice. These experiments in practice-based research are grounded in collaborations with communities and institutions.

The projects DiSalvo describes took place from 2014 to 2019 in Atlanta. Rather than presume that government, industry—or academia—should determine the outcome, the designers began with the recognition that the residents and local organizations were already creative and resourceful. DiSalvo uses the projects to show how design might work as a mode of inquiry. Resisting heroic stories of design and innovation, he argues for embracing design as fragile, contingent, partial, and compromised. In particular, he explores how design might be leveraged to facilitate a more diverse civic imagination. A fundamental tenet of design is that the world is made, and therefore it could be made differently. A key concept is that democracy requires constant renewal and care. Thus, designing becomes a way to care, together, for our collective future.

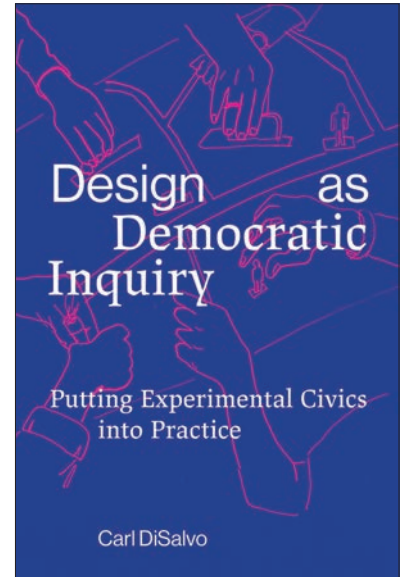
Carl DiSalvo is Associate Professor at the Georgia Institute of Technology, with appointments in the School of Interactive Computing and the School of Literature, Media, and Communication. He is the author of *Adversarial Design* (MIT Press).

design | technology

February | 6 x 9, 240 pp. | 15 illus.

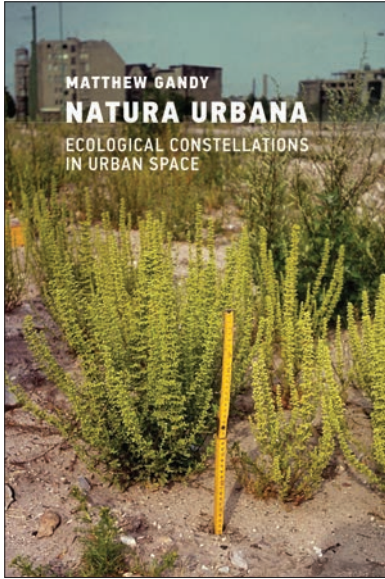
US \$30.00X/\$40.00 CAN paper

978-0-262-54346-0



“The vision of design that DiSalvo outlines is experimental, problem-making over problem-solving, and oriented towards caring for our collective futures. This rich and humble book gave me hope for both the future of design and the future of democracy.”

— **Catherine D’Ignazio, Assistant Professor, MIT, and Director, Data + Feminism Lab, MIT; coauthor of *Data Feminism***



Natura Urbana

Ecological Constellations in Urban Space

Matthew Gandy

A study of urban nature that draws together different strands of urban ecology as well as insights derived from feminist, posthuman, and postcolonial thought.

Postindustrial transitions and changing cultures of nature have produced an unprecedented degree of fascination with urban biodiversity. The “other nature” that flourishes in marginal urban spaces, at one remove from the controlled contours of metropolitan nature, is not the poor relation of rural flora and fauna. Indeed, these islands of biodiversity underline the porosity of the distinction between urban and rural. In *Natura Urbana*, Matthew Gandy explores urban nature as a multilayered material and symbolic entity, through the lens of urban ecology and the parallel study of diverse cultures of nature at a global scale.

Gandy examines the articulation of alternative, and in some cases counterhegemonic, sources of knowledge about urban nature produced by artists, writers, scientists, as well as curious citizens, including voices seldom heard in environmental discourse. The book is driven by Gandy’s fascination with spontaneous forms of urban nature ranging from postindustrial wastelands brimming with life to the return of such predators as wolves and leopards on the urban fringe. Gandy develops a critical synthesis between different strands of urban ecology and considers whether “urban political ecology,” broadly defined, might be imaginatively extended to take fuller account of both the historiography of the ecological sciences and recent insights derived from feminist, posthuman, and postcolonial thought.

Matthew Gandy is Professor of Geography at the University of Cambridge and the author of *Concrete and Clay* and *The Fabric of Space*, both published by the MIT Press.

nature | urban studies

March | 6 x 9, 432 pp. | 33 illus.

US \$30.00X/\$40.00 CAN cloth

978-0-262-04628-2

“Gandy’s majestic exploration of the posthuman, postcolonial ‘ecological pluriverse’ of cultural, material, and biophysical traces from across the globe opens a treasure trove of new ways to understand the fluidity of urban ecologies and natures.”

— **Julian Agyeman, Tufts University**

Treacherous Play

Marcus Carter

The ethics and experience of “treacherous play”: an exploration of three games that allow deception and betrayal—*EVE Online*, *DayZ*, and *Survivor*.

Deception and betrayal in gameplay are generally considered off-limits, designed out of most multiplayer games. There are a few games, however, in which deception and betrayal are allowed, and even encouraged. In *Treacherous Play*, Marcus Carter explores the ethics and experience of playing such games, offering detailed explorations of three games in which this kind of “dark play” is both lawful and advantageous: *EVE Online*, *DayZ*, and the television series *Survivor*. Examining aspects of games that are often hidden, ignored, or designed away, Carter shows the appeal of playing treacherously.

Carter looks at *EVE Online*’s notorious scammers and spies, drawing on his own extensive studies of them, and describes how treacherous play makes *EVE* successful. Making a distinction between treacherous play and griefing or trolling, he examines the experiences of *DayZ* players to show how negative experiences can be positive in games, and a core part of their appeal. And he explains how in *Survivor*’s tribal council votes, a player’s acts of betrayal can exact a cost. Then, considering these games in terms of their design, he discusses how to design for treacherous play.

Carter’s account challenges the common assumptions that treacherous play is unethical, antisocial, and engaged in by bad people. He doesn’t claim that more games should feature treachery, but that examining this kind of play sheds new light on what play can be.

Marcus Carter is Senior Lecturer in Digital Cultures in the Department of Media and Communications at the University of Sydney.

game studies

February | 5 1/4 x 8, 152 pp. | 5 illus.

US \$25.00X/\$34.00 CAN cloth

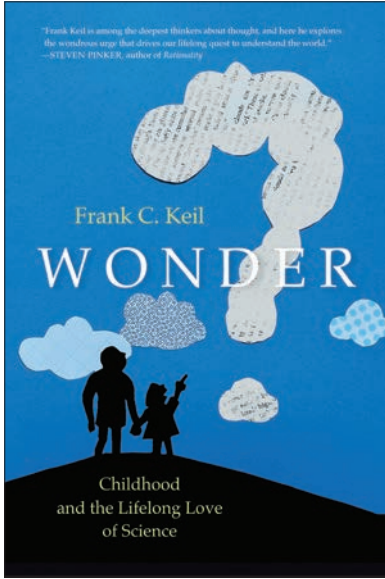
978-0-262-04631-2

Playful Thinking series



“A fascinating study in nontraditional game design. Marcus Carter’s *Treacherous Play* includes some of the best writing about *EVE Online* yet published, investigating the inherent darkness of its design and the effect on its community.”

— **Andrew Groen**, author of *Empires of EVE: A History of the Great Wars of EVE Online*



Wonder

Childhood and the Lifelong Love of Science

Frank C. Keil

How we can all be lifelong wonderers: restoring the sense of joy in discovery we felt as children.

From an early age, children pepper adults with questions that ask why and how: Why do balloons float? How do plants grow from seeds? Why do birds have feathers? Young children have a powerful drive to learn about their world, wanting to know not just what something is but also how it got to be that way and how it works. Most adults, on the other hand, have little curiosity about whys and hows; we might unlock a door, for example, or boil an egg, with no idea of what happens to make such a thing possible. How can grown-ups recapture a child's sense of wonder at the world? In this book, Frank Keil describes the cognitive dispositions that set children on their paths of discovery and explains how we can all become lifelong wonderers.

Keil describes recent research on children's minds that reveals an extraordinary set of emerging abilities that underpin their joy of discovery—their need to learn not just the facts but the underlying causal patterns at the very heart of science. This glorious sense of wonder, however, is stifled, beginning in elementary school. Later, with little interest in causal mechanisms, and motivated by intellectual blind spots, as adults we become vulnerable to misinformation and manipulation—ready to believe things that aren't true. Of course, the polymaths among us have retained their sense of wonder, and Keil explains the habits of mind and ways of wondering that allow them—and can enable us—to experience the joy of asking why and how.

Frank C. Keil is Charles C. & Dorathea S. Dilley Professor of Psychology at Yale University, where he is also a member of the Cognition and Development Lab. He is the author of *Developmental Psychology: The Growth of Mind and Behavior* and other books.

psychology | science

March | 6 x 9, 312 pp. | 17 illus.

US \$35.00X/\$47.00 CAN cloth

978-0-262-04649-7

"Frank Keil is among the deepest thinkers about thought, and here he explores the wondrous urge that drives our lifelong quest to understand the world."

—**Steven Pinker, Johnstone Professor of Psychology, Harvard University; author of *Rationality***

"Frank Keil is one of the great psychologists of our time, and his beautiful, brilliant, and humane work tells the story of children's fascination with the natural world, how it is brutally stifled in school, and how we can recover it as adults."

—**Paul Bloom, Professor of Psychology, University of Toronto; author of *The Sweet Spot: The Pleasures of Suffering and the Search for Meaning***

Art Demonstration

Group Material and the 1980s

Claire Grace

A study of Group Material, the influential but underexamined New York-based artist collective, investigating a series of key works.

Key predecessor of contemporary art's most radical activist gestures, the 1980s collective Group Material seized upon the temporary exhibition as a prime mode of intervention. Projects sited on walls, subways, and billboards targeted some of the most sensitive political conflicts of the era, from U.S. military interventions in Latin America to the AIDS crisis. In *Art Demonstration*, Claire Grace examines Group Material's New York-based collaboration across a decade that saw a wave of renewed interest in art as a domain of political mobilization. As Grace argues here, Group Material's art was never just a means to an end; looking itself held urgency.

Grace distinguishes between two types of Group Material projects: room-scale interiors featuring distinctive wall treatments, soundtracks, and boundary-crossing arrangements of objects, and works in spaces usually reserved for advertising. Grace analyzes the group's practice in both categories, examining such well-known projects as *AIDS Timeline* (1989) and *Democracy* (1988–1989) and lesser-known works including *Subculture* (1983) and *The Castle* (1987). Grace shows that the politics running through Group Material's practice ultimately resides in the artists' particular recourse to the exhibition form. With that bearing, Group Material's work insisted on the material in the face of postmodern theory's privileging of the discursive, and redistributed authorship within protean and pivotally diverse collective structures, testing in so doing the ever fragile contours of democratic participation as art became a commodity for speculative investment.

Claire Grace is Assistant Professor in the Department of Art and Art History at Wesleyan University.

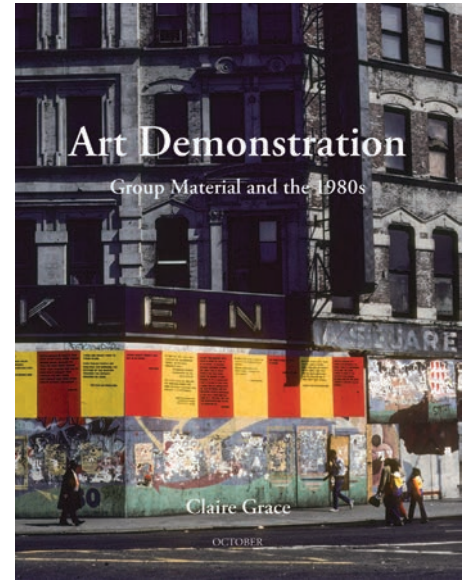
art

April | 7 x 9, 424 pp. | 29 color illus., 84 b&w illus.

US \$39.95X/\$53.95 CAN paper

978-0-262-54352-1

An October Book





London Couture and the Making of a Fashion Centre

Michelle Jones

How design collaboration, networks, and narratives contributed to the establishment of a recognized English couture industry in the 1930s and 1940s.

In the 1930s and 1940s, English fashion houses, spurred by economic and wartime crises, put London on the map as a major fashion city. In this book, Michelle Jones examines the creation of a London-based couture industry during these years, exploring how designer collaboration and the construction of specific networks and narratives supported and shaped the English fashion economy. Haute couture—the practice of creative made-to-measure womenswear—was widely regarded as inherently French. Jones shows how an English version emerged during a period of economic turbulence, when a group of designers banded together in a collective effort to shift power within the international fashion system.

Jones considers the establishment of this form of English design practice, analyzing the commercial, social, and political factors that shaped the professional identity of the London couturiers. She focuses on collaborative activity that supported this form of elite, craft-based fashion production—from the prewar efforts of the Fashion Group of Great Britain to the wartime establishment of the Incorporated Society of London Fashion Designers, modeled loosely after French fashion’s governing body, the *Chambre Syndicale de la Couture Parisienne*. It was these collective efforts by couturiers that established and sustained London’s place as an internationally recognized center for creative fashion.

Michelle Jones is a design historian and Senior Lecturer at Central St. Martins, University of the Arts, London, and the Cambridge School of Visual and Performing Arts.

history | fashion

March | 6 x 9, 320 pp. | 61 illus.

US \$30.00X/\$40.00 CAN cloth

978-0-262-04657-2

“This fascinating account of London’s couture industry shows us that Paris was not the only city to define itself by its commitment to fashion.”

—**Penny Sparke, Professor of Design History, Kingston University, London; and author of *An Introduction to Design and Culture: 1900 to the Present***

Monsoon Economies

India's History in a Changing Climate

Tirthankar Roy

How interventions to mitigate climate-caused poverty and inequality in India came at a cost to environmental sustainability.

In the monsoon regions of South Asia, the rainy season sustains life but brings with it the threat of floods, followed by a long stretch of the year when little gainful work is possible and the threat of famine looms. Beginning in the late nineteenth century, a series of interventions by Indian governments and other actors mitigated these conditions, enabling agricultural growth, encouraging urbanization, and bringing about a permanent decrease in death rates. But these actions—largely efforts to ensure wider access to water—came at a cost to environmental sustainability. In *Monsoon Economies*, Tirthankar Roy explores the interaction between the environment and the economy in the emergence of modern India.

Roy argues that the tropical monsoon climate makes economic and population growth contingent on water security. But in a water-scarce world, the means used to increase water security not only created environmental stresses but also made political conflict more likely. Roy investigates famine relief, the framing of a seasonal “water famine,” and the concept of public trust in water; the political movements that challenged socially sanctioned forms of deprivation; water as a public good; water quality in cities; the shift from impounding river water in dams and reservoirs to exploring groundwater; the seasonality of a monsoon economy; and economic lessons from India for a world facing environmental degradation.

Tirthankar Roy is Professor of Economic History at the London School of Economics and Political Science. He is the author of *The Crafts and Capitalism: Handloom Weaving Industry in Colonial India* and coauthor of *The Economic History of Colonialism* and *Law and the Economy in a Young Democracy*.

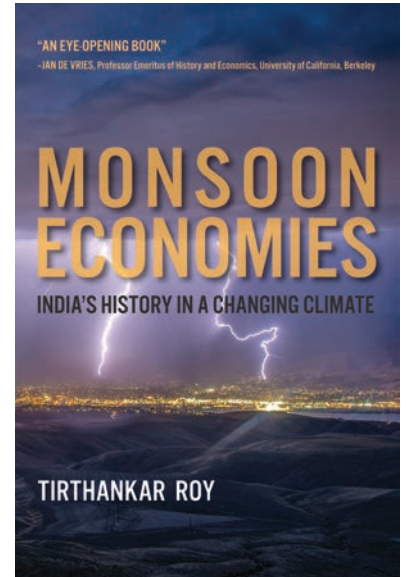
history | environment

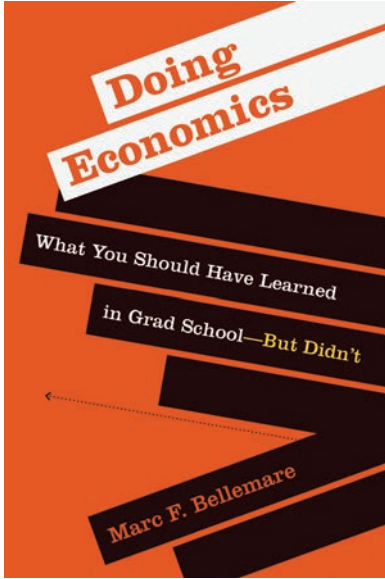
April | 5 1/4 x 8, 160 pp. | 8 illus.

US \$25.00X/\$34.00 CAN paper

978-0-262-54358-3

History for a Sustainable Future





Doing Economics

What You Should Have Learned in Grad School—
But Didn't

Marc F. Bellemare

A guide for research economists: how to write papers, give talks, navigate the peer-review process, advise students, and more.

Newly minted research economists are equipped with a PhD's worth of technical and scientific expertise but often lack some of the practical tools necessary for "doing economics." With this book, economics professor Marc Bellemare breaks down the components of doing research economics and examines each in turn: communicating your research findings in a paper; presenting your findings to other researchers by giving a talk; submitting your paper to a peer-reviewed journal; funding your research program through grants (necessary more often than not for all social scientists); knowing what kind of professional service opportunities to pursue; and advising PhD, master's, and undergraduate students.

With increasing data availability and decreasing computational costs, economics has taken an empirical turn in recent decades. Academic economics is no longer the domain only of the theoretical; many young economists choose applied fields when the time comes to specialize. Yet there is no manual for surviving and thriving as a professional research economist. *Doing Economics* fills that gap, offering an essential guide for research economists at any stage of their careers.

Marc F. Bellemare is Northrop Professor of Applied Economics at the University of Minnesota and coeditor of the *American Journal of Agricultural Economics*.

economics

May | 6 x 9, 200 pp. | 2 illus.

US \$25.00X/\$34.00 CAN paper

978-0-262-54355-2

Memories of a Theoretical Physicist

A Journey across the Landscape of Strings, Black Holes, and the Multiverse

Joseph Polchinski

edited by Ahmed Almheiri

foreword by Andrew Strominger

A groundbreaking theoretical physicist traces his career, reflecting on the successes and failures, triumphs and insecurities of a life cut short by cancer.

“Joseph Polchinski was a highly influential theoretical physicist, bold in his thinking. His scientific memoir provides a fascinating account of the challenges he faced to reach the top of his profession and should be read by anyone interested in contemporary developments in fundamental physics.”

—**Edward Witten, Charles Simonyi Professor, School of Natural Sciences at the Institute for Advanced Study**

The groundbreaking theoretical physicist Joseph Polchinski explained the genesis of his memoir this way: “Having only two bodies of knowledge, myself and physics, I decided to write an autobiography about my development as a theoretical physicist.” In this posthumously published account of his life and work, Polchinski (1954–2018) describes successes and failures, triumphs and insecurities, and the sheer persistence that led to his greatest discoveries. Writing engagingly and accessibly, with the wry humor for which he was known, Polchinski gives theoretical physics a very human face.

Polchinski, famous for his contributions to string theory, may have changed the course of modern theoretical physics, but he was a late bloomer—doing most of his important work after the age of forty. His death from brain cancer at sixty-three cut short a career at its peak. Working on the memoir after his diagnosis, using a text-to-speech algorithm because he could no longer read words on a page, he was able to recapitulate his entire career, down to the details of problems he had worked on. For Polchinski, physics went deeper than words.

This edition includes photographs from Polchinski’s professional and family life, as well as physics explainer boxes, other technical edits, and bibliographic notes by his former student Ahmad Almheiri, a foreword by Andrew Strominger, and an afterword by his wife Dorothy Chun and sons Steven and Daniel.

Joseph Polchinski, a physicist known for his groundbreaking work in string theory, was Professor of Physics at the University of California, Santa Barbara, for many years and a permanent member of the Kavli Institute for Theoretical Physics. He was a recipient of the 2017 Breakthrough Prize in Fundamental Physics. **Ahmed Almheiri** is a long-term Member at the Institute for Advanced Study and is the recipient of the 2021 New Horizons in Physics Prize from the Breakthrough Prize Foundation.

science | biography

March | 5 1/4 x 8, 328 pp. | 7 color plates, 84 b&w illus.,

US \$25.00X/\$34.00 CAN paper

978-0-262-54344-6

MIT Press Textbooks

For decades, the MIT Press textbook program has partnered with leading scholars to publish textbooks for emerging and cutting-edge courses as well as core books for established disciplines. Our textbook program is distinguished by

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Although we are perhaps best known for texts in computer science, economics, game studies, engineering, and the sciences, we've expanded our textbook program rapidly in recent years to represent the full breadth of the MIT Press publishing program.

This spring, we are delighted to announce the largest collection of textbooks that we've ever published. Showcased here are revised editions of classic texts that are leaders in their fields such as the fourth edition of *Introduction to Algorithms* by **Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein** and the fifth edition of *Financial Modeling* by **Simon Benninga and Tal Mofkadi** as well as new titles like *Persuading with Data: A Guide to Designing, Delivering, and Defending Your Data* by **Miro Kazakoff** and the third edition of *TORTS!*, a law text from **Jonathan L. Zittrain and Jordi Weinstock** which we are now copublishing with Harvard Law School.

For more information on our textbook program or to peruse all available textbooks, please visit mitpress.mit.edu/textbooks

Probabilistic Machine Learning

An Introduction

Kevin P. Murphy

A detailed and up-to-date introduction to machine learning, presented through the unifying lens of probabilistic modeling and Bayesian decision theory.

This book offers a detailed and up-to-date introduction to machine learning (including deep learning) through the unifying lens of probabilistic modeling and Bayesian decision theory. The book covers mathematical background (including linear algebra and optimization), basic supervised learning (including linear and logistic regression and deep neural networks), as well as more advanced topics (including transfer learning and unsupervised learning). End-of-chapter exercises allow students to apply what they have learned, and an appendix covers notation.

Probabilistic Machine Learning grew out of the author's 2012 book, *Machine Learning: A Probabilistic Perspective*. More than just a simple update, this is a completely new book that reflects the dramatic developments in the field since 2012, most notably deep learning. In addition, the new book is accompanied by online Python code, using libraries such as scikit-learn, JAX, PyTorch, and Tensorflow, which can be used to reproduce nearly all the figures; this code can be run inside a web browser using cloud-based notebooks, and provides a practical complement to the theoretical topics discussed in the book. This introductory text will be followed by a sequel that covers more advanced topics, taking the same probabilistic approach.

Kevin P. Murphy is a Research Scientist at Google in Mountain View, California, where he works on AI, machine learning, computer vision, and natural language understanding.

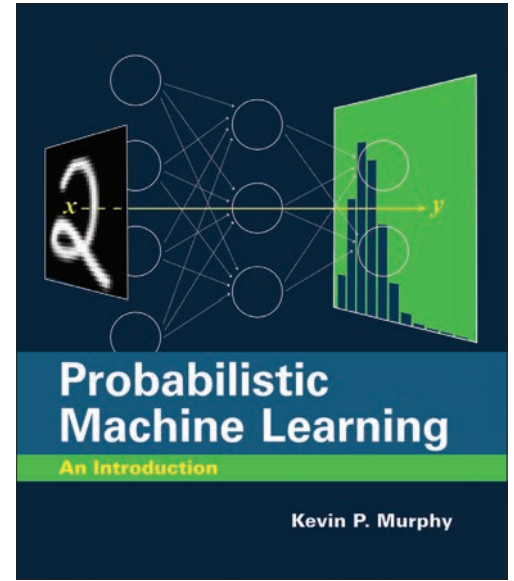
computer science

February | 8 x 9, 864 pp. | 444 illus.

US \$110.00X/\$143.00 CAN cloth

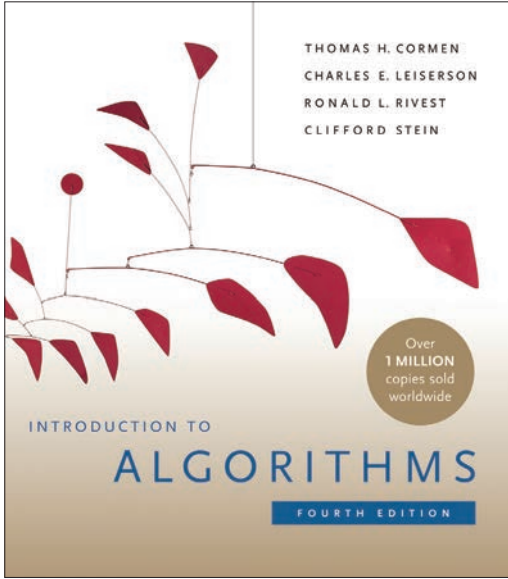
978-0-262-04682-4

Adaptive Computation and Machine Learning series



“The deep learning revolution has transformed the field of machine learning over the last decade. It was inspired by attempts to mimic the way the brain learns but it is grounded in basic principles of statistics, information theory, decision theory, and optimization. This book does an excellent job of explaining these principles and describes many of the ‘classical’ machine learning methods that make use of them. It also shows how the same principles can be applied in deep learning systems that contain many layers of features. This provides a coherent framework in which one can understand the relationships and tradeoffs between many different ML approaches, both old and new.”

—**Geoffrey Hinton, Emeritus Professor of Computer Science, University of Toronto; Engineering Fellow, Google**



Introduction to Algorithms

fourth edition

**Thomas H. Cormen, Charles E. Leiserson,
Ronald L. Rivest, and Clifford Stein**

A comprehensive update of the leading algorithm textbook, with new material on matchings in bipartite graphs, online algorithms, machine learning, and other topics.

Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. *Introduction to Algorithms* uniquely combines rigor and comprehensiveness. It covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers, with self-contained chapters and algorithms in pseudocode.

Since the publication of the first edition, *Introduction to Algorithms* has become the leading algorithms text in universities worldwide as well as the standard reference for professionals. This fourth edition has been updated throughout.

Thomas H. Cormen is Emeritus Professor of Computer Science at Dartmouth College. **Charles E. Leiserson** is Edwin Sibley Webster Professor in Electrical Engineering and Computer Science at MIT. **Ronald L. Rivest** is Institute Professor at MIT. **Clifford Stein** is Wai T. Chang Professor of Industrial Engineering and Operations Research, and of Computer Science at Columbia University.

computer science

March | 8 x 9, 1,312 pp. | 231 illus.

US \$135.00X/\$176.00 CAN cloth
978-0-262-04630-5

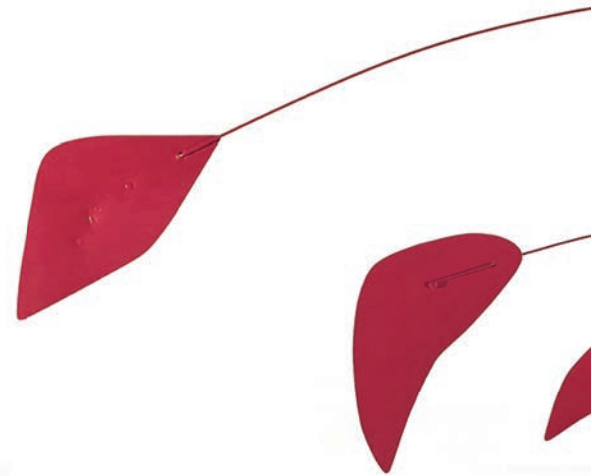
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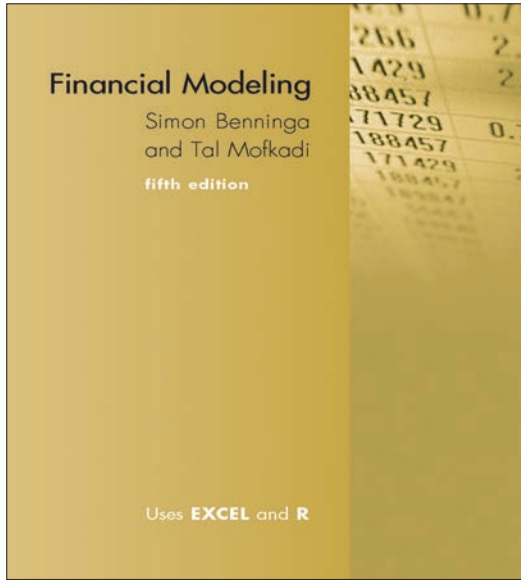
F O U R T H E D I T I O N



New for the fourth edition

- New chapters on matchings in bipartite graphs, online algorithms, and machine learning
- New material on topics including solving recurrence equations, hash tables, potential functions, and suffix arrays
- 140 new exercises and 22 new problems
- Reader feedback–informed improvements to old problems
- Clearer, more personal, and gender-neutral writing style
- Color added to improve visual presentation
- Notes, bibliography, and index updated to reflect developments in the field
- Website with new supplementary material





Financial Modeling

fifth edition

Simon Benninga and Tal Mofkadi

A substantially updated new edition of the essential text on financial modeling, with revised material, new data, and implementations shown in Excel, R, and Python.

Financial Modeling has become the gold-standard text in its field, an essential guide for students, researchers, and practitioners that provides the computational tools needed for modeling finance fundamentals. This fifth edition has been substantially updated but maintains the straightforward, hands-on approach, with an optimal mix of

explanation and implementation, that made the previous editions so popular. Using detailed Excel spreadsheets, it explains basic and advanced models in the areas of corporate finance, portfolio management, options, and bonds. This new edition offers revised material on valuation, second-order and third-order Greeks for options, value at risk (VaR), and Monte Carlo methods. The examples and implementation use up-to-date and relevant data.

Parts I to V cover corporate finance topics, bond and yield curve models, portfolio theory, options and derivatives, and Monte Carlo methods and their implementation in finance. Parts VI and VII treat technical topics, with part VI covering Excel and R issues and part VII (now on the book's auxiliary website) covering Excel's programming language, Visual Basic for Applications (VBA), and Python implementations. Knowledge of technical chapters on VBA and R is not necessary for understanding the material in the first five parts. The book is suitable for use in advanced finance classes that emphasize the need to combine modeling skills with a deeper knowledge of the underlying financial models.

The late **Simon Benninga** was Professor of Finance and Director of the Sofaer International MBA program at the Faculty of Management at Tel-Aviv University. For many years he was a Visiting Professor at the Wharton School of the University of Pennsylvania. **Tal Mofkadi** is Professor in the School of Finance in the Faculty of Management at Tel Aviv University, University of Amsterdam, and Nagoya University of Business and Commerce, and the managing partner of Numerics, a financial consultancy firm.

finance

February | 7 x 9, 1,048 pp. | 925 illus.

US \$125.00X/\$163.00 CAN cloth

978-0-262-04642-8

"Financial Modeling demonstrates how Excel and other computational tools facilitate complex problem-solving. The fifth edition clarifies the exposition of some earlier material and adds R and Python to the toolkit. It's a must-have for finance students, scholars, and modeling professionals."

—Robert A. Taggart, Professor Emeritus, Finance, Carroll School of Management, Boston College

University Chemistry

Frontiers and Foundations from a Global and Molecular Perspective

James G. Anderson

A new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges.

Introductory chemistry and physics are generally taught at the university level as isolated subjects, divorced from any compelling context. Moreover, the “formalism first” teaching approach presents students with disembodied knowledge, abstract and learned by rote. By contrast, this textbook presents a new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. It provides the rigorous development of the principles of chemistry but places these core concepts in a global context to engage developments in technology, energy production and distribution, the irreversible nature of climate change, and national security.

Each chapter opens with a “Framework” section that establishes the topic’s connection to emerging challenges. Next, the “Core” section addresses concepts including the first and second law of thermodynamics, entropy, Gibbs free energy, equilibria, acid-base reactions, electrochemistry, quantum mechanics, molecular bonding, kinetics, and nuclear. Finally, the “Case Studies” section explicitly links the scientific principles to an array of global issues. These case studies are designed to build quantitative reasoning skills, supply the technology background, and illustrate the critical global need for the infusion of technology into energy generation. The text’s rigorous development of both context and scientific principles equips students for advanced classes as well as future involvement in scientific and societal arenas.

University Chemistry was written for a widely adopted course created and taught by the author at Harvard.

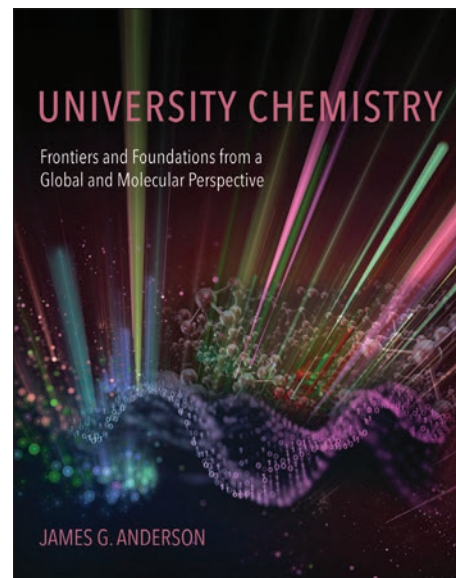
James G. Anderson, recipient of the 2021 Dreyfus Prize in Environmental Chemistry, is Philip Weld Professor in the Departments of Chemistry and Chemical Biology, Earth and Planetary Sciences, and the School of Engineering and Applied Sciences at Harvard University.

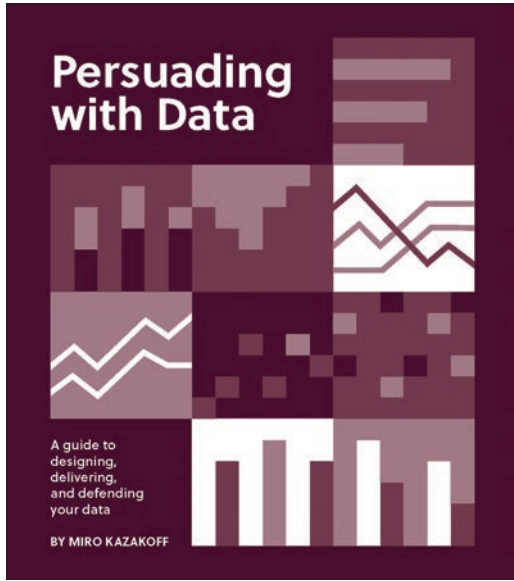
science

February | 8 1/2 x 10 3/4, 880 pp. | 1,250 color illus.

US \$75.00X/\$99.00 CAN paper

978-0-262-54265-4





Persuading with Data

A Guide to Designing, Delivering,
and Defending Your Data

Miro Kazakoff

An integrated introduction to data visualization, strategic communication, and delivery best practices.

Persuading with Data provides an integrated instructional guide to data visualization, strategic communication, and delivery best practices. Most books on data visualization focus on creating good graphs. This is the first book that combines both explanatory visualization and communication strategy, showing how to use visuals to create effective communications that convince an audience

to accept and act on the data. In four parts that proceed from micro to macro, the book explains how our brains make sense of graphs; how to design effective graphs and slides that support your ideas; how to organize those ideas into a compelling presentation; and how to deliver and defend data to an audience.

Persuading with Data is for anyone who has to explain analytical results to others. It synthesizes a wide range of skills needed by modern data professionals, providing a complete toolkit for creating effective business communications. Readers will learn how to simplify in order to amplify, how to communicate data analysis, how to prepare for audience resistance, and much more. The book integrates practitioner and academic perspectives with real-world examples from a variety of industries, organizations, and disciplines. It is accessible to a wide range of readers—from undergraduates to mid-career and executive-level professionals—and has been tested in settings that include academic classes and workplace training sessions.

Miro Kazakoff is Senior Lecturer in Managerial Communication at MIT Sloan School of Management.

business | communication

March | 8 x 9, 256 pp. | 174 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54327-9

Introduction to Modeling Cognitive Processes

Tom Verguts

An introduction to computational modeling for cognitive neuroscientists, covering both foundational work and recent developments.

Cognitive neuroscientists need sophisticated conceptual tools to make sense of their field's proliferation of novel theories, methods, and data. Computational modeling is such a tool, enabling researchers to turn theories into precise formulations. This book offers a mathematically gentle and theoretically unified introduction to modeling cognitive processes. Theoretical exercises of varying degrees of difficulty throughout help readers develop their modeling skills.

After a general introduction to cognitive modeling and optimization, the book covers models of decision making; supervised learning algorithms, including Hebbian learning, delta rule, and backpropagation; the statistical model analysis methods of model parameter estimation and model evaluation; the three recent cognitive modeling approaches of reinforcement learning, unsupervised learning, and Bayesian models; and models of social interaction. All mathematical concepts are introduced gradually, with no background in advanced topics required. Hints and solutions for exercises and a glossary follow the main text. All code in the book is Python, with the Spyder editor in the Anaconda environment. A GitHub repository with Python files enables readers to access the computer code used and start programming themselves. The book is suitable as an introduction to modeling cognitive processes for students across a range of disciplines and as a reference for researchers interested in a broad overview.

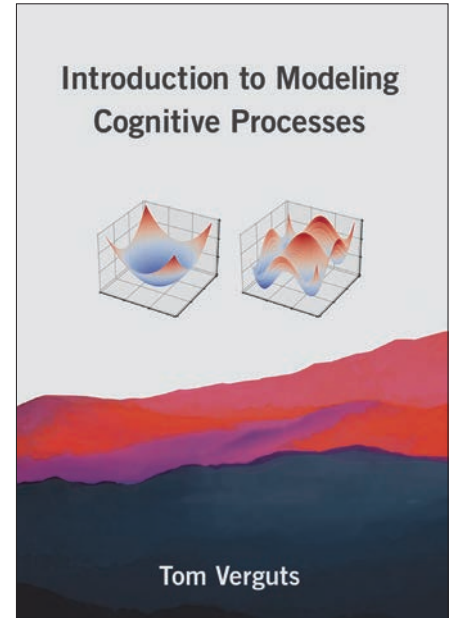
Tom Verguts is Professor in the Department of Experimental Psychology at Ghent University.

cognitive science

May | 7 x 10, 264 pp. | 49 illus.

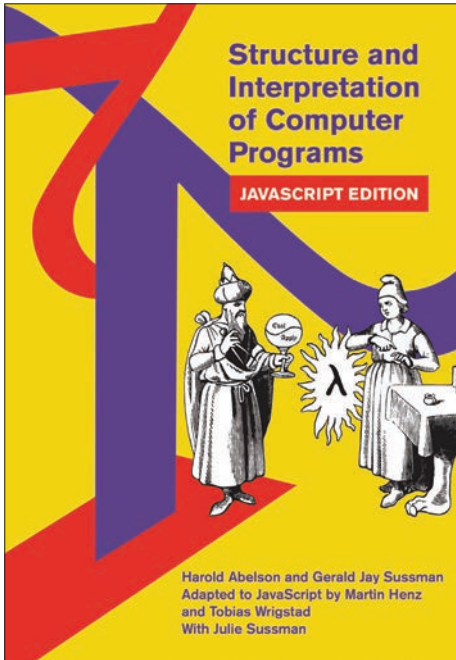
US \$50.00X/\$66.00 CAN cloth

978-0-262-04536-0



“Neurocognitive modeling spans many levels of analysis, from neurons to cognitive function. Verguts presents an exceptionally lucid overview of theoretical and methodological approaches in this field that will be an amazing resource for students at all levels.”

— **Michael J. Frank, Edgar L. Marston Professor and Director of the Carney Center for Computational Brain Science, Brown University; coauthor of Computational Cognitive Neuroscience**



Structure and Interpretation of Computer Programs

JavaScript edition

Harold Abelson and Gerald Jay Sussman

adapted for JavaScript by Martin Henz
and Tobias Wrigstad

with Julie Sussman

A new version of the classic and widely used text adapted for the JavaScript programming language.

Since the publication of its first edition in 1984 and its second edition in 1996, *Structure and Interpretation of Computer Programs* (*SICP*) has influenced computer science curricula around the world. Widely adopted as a textbook, the book has its origins in a popular entry-level computer science course taught by Harold Abelson and Gerald Jay Sussman at MIT. *SICP* introduces the reader to central ideas of computation by establishing a series of mental models for computation. Earlier editions used the programming language Scheme in their program examples. This new version of the second edition has been adapted for JavaScript.

The first three chapters of *SICP* cover programming concepts that are common to all modern high-level programming languages. Chapters four and five, which used Scheme to formulate language processors for Scheme, required significant revision. Chapter four offers new material, in particular an introduction to the notion of program parsing. The evaluator and compiler in chapter five introduce a subtle stack discipline to support return statements (a prominent feature of statement-oriented languages) without sacrificing tail recursion.

The JavaScript programs included in the book run in any implementation of the language that complies with the ECMAScript 2020 specification, using the JavaScript package `sicp` provided by the MIT Press website.

Harold Abelson is Class of 1922 Professor of Computer Science and Engineering at MIT. **Gerald Jay Sussman** is Panasonic Professor of Electrical Engineering at MIT. **Martin Henz** is Associate Professor of Computer Science at the National University of Singapore. **Tobias Wrigstad** is Professor of Computer Science at Uppsala University.

computer science

April | 7 x 10, 640 pp. | 87 illus.

US \$55.00X/\$73.00 CAN paper

978-0-262-54323-1

MIT Electrical Engineering and Computer Science

An Experiential Introduction to Principles of Programming Languages

Hridesh Rajan

A textbook that uses a hands-on approach to teach principles of programming languages, with Java as the implementation language.

This introductory textbook teaches the principles of programming languages by using an experiential learning style, in which students learn about language features by realizing those features in a pedagogical compiler. Students use Java—the most commonly used programming language in the first two years of the computer science curriculum—as the implementation language throughout. The book also discusses a range of emerging topics in programming languages missing from existing textbooks, including concurrency, Big Data, and event-driven programming. The goal is to prepare students to design, implement, analyze, and understand both domain-specific and general-purpose programming languages.

The book first develops basic concepts in languages, including means of computation using primitive values, means of combination such as variable definition and functions, and means of abstraction such as functions and recursive functions. It then examines imperative features such as references, concurrency features such as fork, and reactive features such as event handling. Finally, it looks at language features that express important, and often different, perspectives of thinking about computation, including those of logic programming and flow-based programming. Each chapter is associated with a working implementation of a small programming language, and students are encouraged to obtain the code corresponding to the chapters and follow along. Students should have experience in programming with Java as well as an understanding of object-oriented classes, inheritance, polymorphism, and static classes.

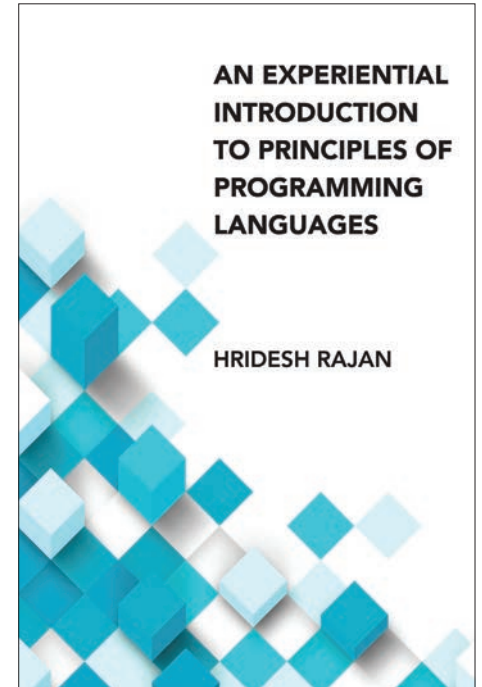
Hridesh Rajan is Kingland Professor and Chair in the Department of Computer Science at Iowa State University. He has held visiting positions at the University of Bristol, Harvard University, and the University of Texas. He is a Fellow of the AAAS and a distinguished member of the ACM.

computer science

May | 7 x 10, 312 pp. | 95 illus.

US \$50.00X/\$66.00 CAN cloth

978-0-262-04545-2



Computational Imaging

Ayush Bhandari, Achuta Kadambi,
and Ramesh Raskar

A comprehensive and up-to-date textbook and reference for computational imaging, which combines vision, graphics, signal processing, and optics.

Computational imaging involves the joint design of imaging hardware and computer algorithms to create novel imaging systems with unprecedented capabilities. In recent years such capabilities include cameras that operate at a trillion frames per second, microscopes that can see small viruses long thought to be optically irresolvable, and telescopes that capture images of black holes. This text offers a comprehensive and up-to-date introduction to this rapidly growing field, a convergence of vision, graphics, signal processing, and optics. It can be used as an instructional resource for computer imaging courses and as a reference for professionals. It covers the fundamentals of the field, current research and applications, and light transport techniques.

The text first presents an imaging toolkit, including optics, image sensors, and illumination, and a computational toolkit, introducing modeling, mathematical tools, model-based inversion, data-driven inversion techniques, and hybrid inversion techniques. It then examines different modalities of light, focusing on the plenoptic function, which describes degrees of freedom of a light ray. Finally, the text outlines light transport techniques, describing imaging systems that obtain micron-scale 3D shape or optimize for noise-free imaging, optical computing, and non-line-of-sight imaging. Throughout, it discusses the use of computational imaging methods in a range of application areas, including smart phone photography, autonomous driving, and medical imaging. End-of-chapter exercises help put the material in context.

Ayush Bhandari is Assistant Professor of Electrical and Electronic Engineering at Imperial College London. **Achuta Kadambi** is Assistant Professor of Electrical Engineering and Computer Science at the University of California, Los Angeles. **Ramesh Raskar** is Associate Professor at the MIT Media Lab and winner of the 2016 Lemelson-MIT Prize.

computer science | engineering

June | 7 x 9, 488 pp. | 260 illus.

US \$60.00X/\$79.00 CAN cloth

978-0-262-04647-3

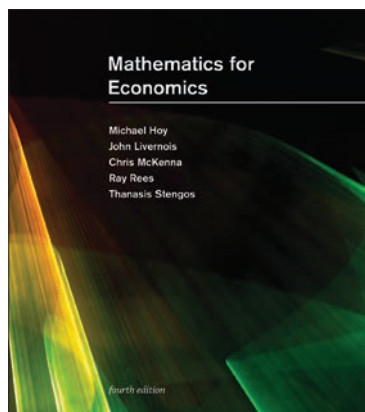
Mathematics for Economics

fourth edition

Michael Hoy, John Livernois, Chris McKenna, Ray Rees, and Thanasis Stengos

An updated edition of a widely used textbook, offering a clear and comprehensive presentation of mathematics for undergraduate economics students.

This text offers a clear and comprehensive presentation of the mathematics required to tackle problems in



economic analyses, providing not only straightforward exposition of mathematical methods for economics students at the intermediate and advanced undergraduate levels but also a large collection of problem sets. This updated and expanded fourth

edition contains numerous worked examples drawn from a range of important areas, including economic theory, environmental economics, financial economics, public economics, industrial organization, and the history of economic thought. These help students develop modeling skills by showing how the same basic mathematical methods can be applied to a variety of interesting and important issues.

The five parts of the text cover fundamentals, calculus, linear algebra, optimization, and dynamics. The only prerequisite is high school algebra; the book presents all the mathematics needed for undergraduate economics. New to this edition are “Reader Assignments,” short questions designed to test students’ understanding before they move on to the next concept. The book’s website offers additional material, including more worked examples (as well as examples from the previous edition). Separate solutions manuals for students and instructors are also available.

Michael Hoy is Professor in the Department of Economics and Finance at the University of Guelph. **John Livernois** is Professor in the Department of Economics at the University of Guelph. **Chris McKenna** is former Professor in the Department of Economics and Finance at the University of Guelph. **Ray Rees** is Professor of Economics Emeritus at the Center for Economic Studies (CES) at the University of Munich. **Thanasis Stengos** is Professor in the Department of Economics and Finance at the University of Guelph.

economics

March | 8 x 9, 1,104 pp. | 308 illus.

US \$125.00X/\$163.00 CAN cloth
978-0-262-04662-6

Praise for the previous edition

“Mathematics is the language of economics, and this book is an excellent introduction to that language.”

—**George J. Mailath, Walter H. Annenberg Professor in the Social Sciences and Professor of Economics, University of Pennsylvania**

“While there are many mathematics texts for economics available, this one is by far the best. It covers a comprehensive range of techniques with interesting applications, and the numerous worked examples and problems are a real bonus for the instructor. Teaching a course with this book is enjoyable and easy.”

—**Kevin Denny, Senior Lecturer, School of Economics, University College Dublin**

Student Solutions Manual for *Mathematics for Economics*

fourth edition

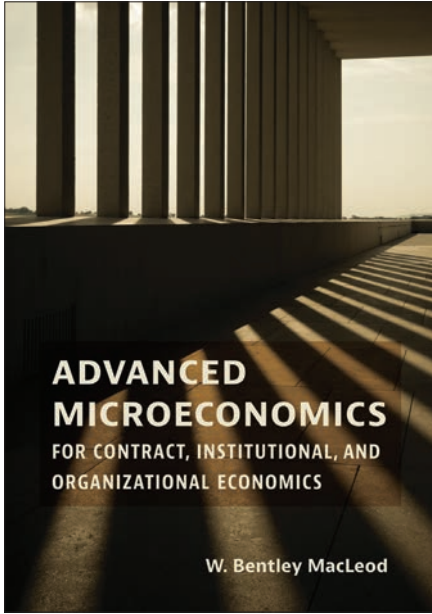
Michael Hoy, John Livernois, Chris McKenna, Ray Rees, and Thanasis Stengos

This student solutions manual contains solutions to odd-numbered exercises in the fourth edition of *Mathematics for Economics*.

economics

April | 8 1/2 x 11, 168 pp.

US \$40.00X/\$54.00 CAN paper
978-0-262-54372-9



Advanced Microeconomics for Contract, Institutional, and Organizational Economics

W. Bentley MacLeod

A graduate textbook on microeconomics, covering decision theory, game theory, and the foundations of contract theory, with a unique focus on the empirical.

This graduate-level text on microeconomics, covering such topics as decision theory, game theory, bargaining theory, contract theory, trade under asymmetric information, and relational contract theory, is unique in its emphasis on the interplay between theory and evidence. It reviews the microeconomic theory of exchange “from the ground up,” aiming to produce a set of models and hypotheses amenable to empirical exploration, with particular focus on models that are useful for the study of contracts, institutions, and organizations. It explores research that extends price theory to the exchange of commodities when markets are incomplete, discussing recent developments in the field.

Topics covered include the relationship between theory and evidence; decision theory as it is used in contract theory and institutional design; game theory; axiomatic and strategic bargaining theory; agency theory and the class of models that are considered to constitute contract theory, with discussions of moral hazard and trade with asymmetric information; and the theory of relational contracts. The final chapter offers a nontechnical review that provides a guide to which model is the most appropriate for a particular application. End-of-chapter exercises help students expand their understanding of the material, and an appendix provides a brief introduction to optimization theory and the welfare theorem of general equilibrium theory. Students are assumed to be familiar with general equilibrium theory and basic constrained optimization theory.

W. Bentley MacLeod is Sami Mnaymneh Professor of Economics, Professor of International and Public Affairs, and Affiliated Law Faculty at Columbia University.

economics

April | 7 x 10, 408 pp. | 31 illus.

US \$90.00X/\$119.00 CAN cloth

978-0-262-04687-9

Torts!

third edition

Jonathan L. Zittrain and Jordi Weinstock

A law school casebook that maps the progression of the law of torts through the language and example of public judicial decisions in a range of cases.

A tort is a wrong that a court is prepared to recognize, usually in the form of ordering the transfer of money (“damages”) from the wrongdoer to the wronged. The tort system offers recourse for people aggrieved and harmed by the actions of others. By filing a lawsuit, private citizens can demand the attention of alleged wrongdoers to account for what they’ve done—and of a judge and jury to weigh the claims and set terms of compensation. This book, which can be used as a primary text for a first-year law school torts course, maps the progression of the law of torts through the language and example of public judicial decisions in a range of cases. Taken together, these cases show differing approaches to the problems of defining legal harm and applying those definitions to a messy world.

The cases range from alleged assault and battery by “The Schoolboy Kicker” (1891) to the liability of General Motors for “The Crumpling Toe Plate” (1993). Each case is an artifact of its time; students can compare the judges’ societal perceptions and moral compasses to those of the current era.

This book is part of the Open Casebook series from Harvard Law School Library and the MIT Press.

Jonathan L. Zittrain is George Bemis Professor of International Law at Harvard Law School and Harvard Kennedy School of Government. He is also Professor of Computer Science at the Harvard School of Engineering and Applied Sciences, Director of the Harvard Law School Library, and Cofounder and Director of Harvard’s Berkman Klein Center for Internet & Society. **Jordi Weinstock** is a Lecturer on Law at Harvard Law School.

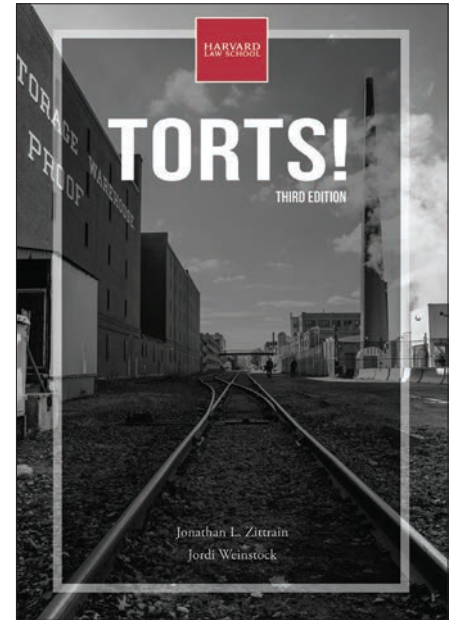
law

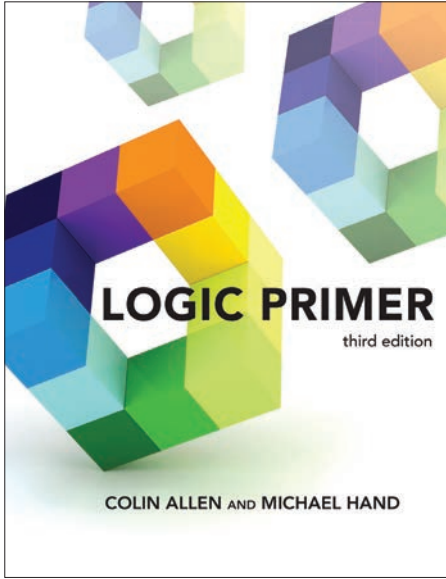
March | 7 x 10, 688 pp. | 23 illus.

US \$65.00X/\$86.00 CAN paper

978-0-262-54387-3

The Open Casebook Series





Logic Primer

third edition

Colin Allen and Michael Hand

The new edition of a comprehensive and rigorous but concise introduction to symbolic logic.

Logic Primer offers a comprehensive and rigorous introduction to symbolic logic, providing concise definitions of key concepts, illustrative examples, and exercises. After presenting the definitions of validity and soundness, the book goes on to introduce a formal language, proof theory, and formal semantics for sentential logic (chapters 1–3) and for first-order predicate logic (chapters 4–6) with identity (chapter 7). For this third edition, the material has been reorganized from four chapters into seven, increasing the modularity of the text and enabling teachers to choose alternative paths through the book. New exercises have been added, and all exercises are now arranged to support students moving from easier to harder problems.

Its spare and elegant treatment makes *Logic Primer* unique among textbooks. It presents the material with minimal chattiness, allowing students to proceed more directly from topic to topic and leaving instructors free to cover the subject matter in the way that best suits their students. The book includes more than thirty exercise sets, with answers to many of them provided in an appendix. The book's website allows students to enter and check proofs, truth tables, and other exercises interactively.

Colin Allen is Distinguished Professor in the Department of History and Philosophy of Science at the University of Pittsburgh. He is coauthor of *Species of Mind* and coeditor of *Nature's Purposes* and *The Cognitive Animal*, all published by the MIT Press. Michael Hand is Professor of Philosophy at Texas A&M University.

philosophy

February | 7 x 9, 176 pp.

US \$35.00X/\$47.00 CAN paper

978-0-262-54364-4

"I have long been a huge fan of *Logic Primer*, so it's very exciting to see it being released in a third edition. This edition retains the elegant and intuitive system developed by the authors in previous editions but introduces and presents the material in a more modularized structure, thereby making an already superb textbook more adaptable to different instructional preferences. I can't wait to use this in my classes!"

—**Amy Kind, Professor of Philosophy, Claremont McKenna**

"I am very pleased to see that *Logic Primer* is coming out in a third edition. I have used the previous editions to great effect in turning my classes into learning communities of careful readers. My students and I have appreciated *Logic Primer's* clear, direct, and intelligibly sequenced presentation of material."

—**William Robinson, Professor of Philosophy Emeritus, Iowa State University**

Action, Mind, and Brain

An Introduction

David A. Rosenbaum

An engaging and accessible introduction to the psychology and neuroscience of physical action.

This engaging and accessible book offers the first introductory text on the psychology and neuroscience of physical action. Written by a leading researcher in the field, it covers the interplay of action, mind, and brain, showing that many core concepts in philosophy, psychology, neuroscience, and technology grew out of questions about the control of everyday physical actions. It explains action not as a “one-way street from stimuli to response” but as a continual action-perception cycle. The informal writing style invites students to think through the evidence step by step, helping them develop general thinking skills as well as learn specific facts. Special emphasis is placed on the role of underrepresented groups.

The book discusses the intellectual background of the field, from Plato to Kant, Dewey, and others; applications and methods; and the physical substrates of action—bones, tendons, ligaments, muscles, and nerves. It considers the control of actions in space; learning, and the roles of nature and nurture; feedback; feedforward, or anticipated feedback; and degrees of freedom—the multiple ways of getting things done and three methods for narrowing the alternatives. The book is generously illustrated, including many images of thinkers who contributed to the field.

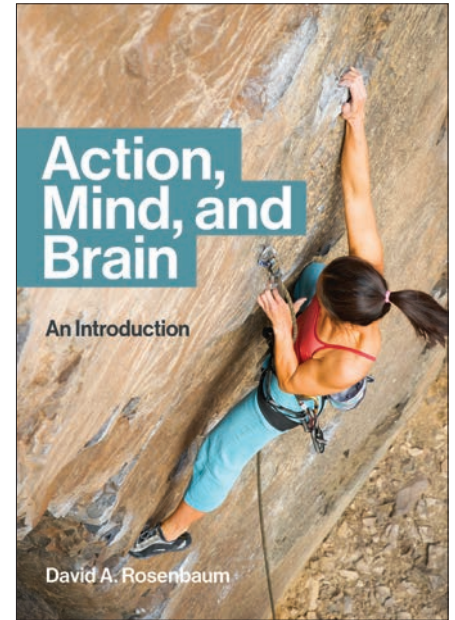
David A. Rosenbaum is Distinguished Professor in the Department of Psychology at the University of California, Riverside. He is the author of *Human Motor Control*, *It's a Jungle in There: How Competition and Cooperation in the Brain Shape the Mind*, *Knowing Hands: The Cognitive Psychology of Manual Control*, and other books.

psychology

February | 7 x 10, 302 pp. | 115 illus.

US \$55.00X/\$73.00 CAN paper

978-0-262-54339-2

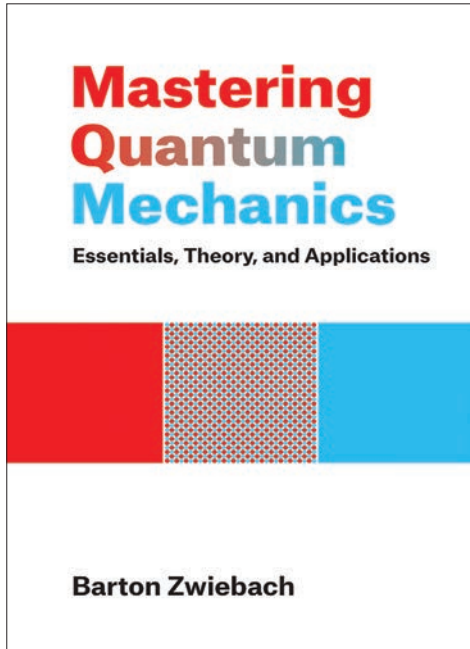


“*Action, Mind, and Brain* is a brilliant invitation to students of psychology, neuroscience, and kinesiology to explore the brain in action. This is a book I’ve long desired.”

—**Romeo Chua, Professor,
School of Kinesiology,
University of British Columbia**

“David Rosenbaum’s richly illustrated book is an exceptionally engaging, educational, and encompassing primer to brain, cognition, and behavior. It uniquely introduces students to the history, philosophy, methods, and measures of the science of human action.”

—**Edward Wasserman, Stuit
Professor of Experimental
Psychology, University of Iowa;
author of *As If by Design: How
Creative Behaviors Really Evolve***



Mastering Quantum Mechanics

Essentials, Theory, and Applications

Barton Zwiebach

A complete overview of quantum mechanics, covering essential concepts and results, theoretical foundations, and applications.

This undergraduate textbook offers a comprehensive overview of quantum mechanics, beginning with essential concepts and results, proceeding through the theoretical foundations that provide the field's conceptual framework, and concluding with the tools and applications students will need for advanced studies and for research. Drawn from lectures created for MIT undergraduates and for the popular MITx online course, "Mastering Quantum Mechanics," the text presents the material in a modern and approachable manner while still including the traditional topics necessary for a well-rounded understanding of the subject. As the book progresses, the treatment gradually increases in difficulty, matching students' increasingly sophisticated understanding of the material.

Part 1, on essentials, offers a sound introduction to the subject, touching on such topics as states and probability amplitudes, the Schrodinger equation, energy eigenstates of particles in potentials, the hydrogen atom, and spin one-half particles. Part 2, on theoretical foundations, covers mathematical tools, the pictures of quantum mechanics and the axioms of quantum mechanics, entanglement and tensor products, angular momentum, and identical particles. Part 3, on applications, introduces tools and techniques that help students master the theoretical concepts with a focus on approximation methods. About 240 exercises appear throughout the text, and nearly 300 end-of-chapter problems support the understanding of the subject. After mastering the material in this book, students will have the strong foundation in quantum mechanics that is required for graduate work in physics.

Barton Zwiebach is Professor of Physics at MIT. His research is in theoretical particle physics and string theory, and he is the author of the undergraduate textbook *A First Course in String Theory*. The creator and lead instructor for the popular MITx "Mastering Quantum Mechanics" course, he taught undergraduate quantum mechanics at MIT from 2010 to 2020.

science | physics

April | 8 x 10, 1200 pp. | 248 illus.

US \$110.00X/\$143.00 CAN cloth

978-0-262-04613-8

Human-Centered Data Science

An Introduction

Cecilia Aragon, Shion Guha, Marina Kogan, Michael Muller, and Gina Neff

Best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of large datasets.

Human-centered data science is a new interdisciplinary field that draws from human-computer interaction, social science, statistics, and computational techniques. This book, written by founders of the field, introduces best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of very large datasets. It offers a brief and accessible overview of many common statistical and algorithmic data science techniques, explains human-centered approaches to data science problems, and presents practical guidelines and real-world case studies to help readers apply these methods.

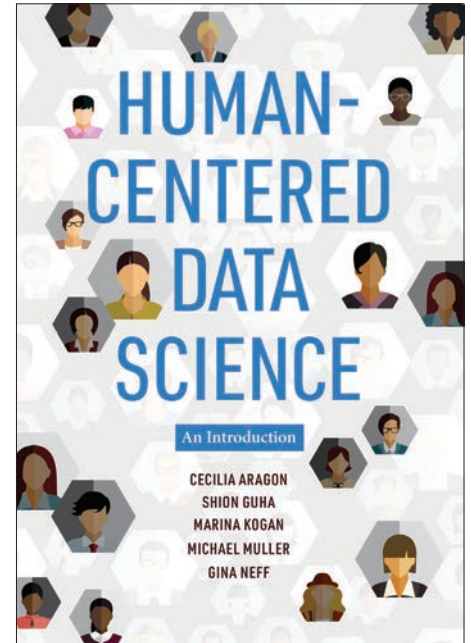
The authors explain how data scientists' choices are involved at every stage of the data science workflow—and show how a human-centered approach can enhance each one, by making the process more transparent, asking questions, and considering the social context of the data. They describe how tools from social science might be incorporated into data science practices, discuss different types of collaboration, and consider data storytelling through visualization. The book shows that data science practitioners can build rigorous and ethical algorithms and design projects that use cutting-edge computational tools and address social concerns.

Cecilia Aragon is Professor in the Department of Human Centered Design and Engineering at the University of Washington. **Shion Guha** is Assistant Professor in the Faculty of Information at the University of Toronto. **Marina Kogan** is Assistant Professor in the School of Computing at the University of Utah. **Michael Muller** is a Research staff member at IBM Research. **Gina Neff** is Professor of Technology and Society at the Oxford Internet Institute and the Department of Sociology at the University of Oxford.

technology | data science

February | 7 x 10, 200 pp. | 24 illus.

US \$35.00X/\$47.00 CAN paper
978-0-262-54321-7



“We cannot engage in data science that doesn’t account for power. Histories and systems of race and gender must be taught to data scientists, because we know terrible wrongs can occur in the making and use of data. This book is a must-read to expose the next generation of data scientists to the consequences of their work.”

—**Safiya Umoja Noble, author of *Algorithms of Oppression***

The Individual in the Animal Kingdom

Julian S. Huxley

foreword by Richard Gawne and Jacobus Boomsma

The groundbreaking first book by a major evolutionary biologist, published in 1912, that anticipated current thinking about organismal complexity.

Julian Huxley's *The Individual in the Animal Kingdom*, published in 1912, is a concise and groundbreaking work that is almost entirely unknown today. In it, Huxley analyzes the evolutionary advances in life's organizational complexity, anticipating many of today's ideas about changes in individuality. Huxley's overarching system of concepts and his coherent logical principles were so far ahead of their time that they remain valid to this day. In part, this is because his explicitly Darwinian approach carefully distinguished between the integrated form and function of hierarchies within organisms and loosely defined, nonorganismal ecological communities.

In *The Individual in the Animal Kingdom*, we meet a youthful Huxley who uses his commanding knowledge of natural history to develop a nonreductionist account of life's complexity that aligns with seminal early insights by Darwin, Wallace, Weismann, and Wheeler. As volume editors Richard Gawne and Jacobus Boomsma point out, this work disappeared into oblivion despite its relevance for contemporary research on organismal complexity and major evolutionary transitions. This MIT Press edition gives Huxley's book a second hearing, offering readers a unique vantage point on the discoveries of evolutionary biology past and present.

Julian Huxley (1887–1975), an English evolutionary biologist, was a prolific author and a leading figure in the mid-twentieth century effort to consolidate the modern synthesis of evolutionary theory.

Richard Gawne is Postdoctoral Fellow at the Allen Discovery Center at Tufts University and coeditor of *The Convergent Evolution of Agriculture in Humans and Insects* (MIT Press). **Jacobus Boomsma** is Professor of Ecology and Evolution at the University of Copenhagen.

science | biology

March | 5 1/4 x 8, 184 pp. | 18 illus.

US \$25.00X/\$34.00 CAN cloth

978-0-262-04537-7

The Convergent Evolution of Agriculture in Humans and Insects

edited by Ted R. Schultz, Richard Gawne,
and Peter N. Peregrine

Contributors explore common elements in the evolutionary histories of both human and insect agriculture resulting from convergent evolution.

During the past 12,000 years, agriculture originated in humans as many as twenty-three times, and during the past 65 million years, agriculture also originated in nonhuman animals at least twenty times and in insects at least fifteen times. It is much more likely that these independent origins represent similar solutions to the challenge of growing food than that they are due purely to chance. This volume seeks to identify common elements in the evolutionary histories of both human and insect agriculture that are the results of convergent evolution. The goal is to create a new, synthetic field that characterizes, quantifies, and empirically documents the evolutionary and ecological mechanisms that drive both human and nonhuman agriculture.

The contributors report on the results of quantitative analyses comparing human and nonhuman agriculture; discuss evolutionary conflicts of interest between and among farmers and cultivars and how they interfere with efficiencies of agricultural symbiosis; describe in detail agriculture in termites, ambrosia beetles, and ants; and consider patterns of evolutionary convergence in different aspects of agriculture, comparing fungal parasites of ant agriculture with fungal parasites of human agriculture, analyzing the effects of agriculture on human anatomy, and tracing the similarities and differences between the evolution of agriculture in humans and in a single, relatively well-studied insect group, fungus-farming ants.

Ted R. Schultz is Research Entomologist at the Smithsonian Institution.

Richard Gawne is Postdoctoral Fellow at the Allen Discovery Center at Tufts University. **Peter N. Peregrine** is Professor of Anthropology and Museum Studies at Lawrence University.

science | biology

February | 7 x 10, 338 pp. | 54 illus.

US \$75.00X/\$99.00 CAN paper

978-0-262-54320-0

Vienna Series in Theoretical Biology

Global Fintech

Financial Innovation in the Connected World

David L. Shrier and Alex Pentland

How the global financial services sector has been transformed by artificial intelligence, data science, and blockchain.

Artificial intelligence, big data, blockchain, and other new technologies have upended the global financial services sector, creating opportunities for entrepreneurs and corporate innovators. Venture capitalists have helped to fund this disruption, pouring nearly \$500 billion into fintech over the last five years. This book offers global perspectives on technology-fueled transformations in financial services, with contributions from a wide-ranging group of academics, industry professionals, former government officials, and current government advisors. They examine not only the struggles of rich countries to bring the old analog world into the new digital one but also the opportunities for developing countries to “leapfrog” directly into digital.

The book offers accessible explanations of blockchain and distributed ledger technology and explores big data analytics. It considers, among other things, open banking, platform-based strategies for banks, and digital financial services. Case studies imagine possible future fintech-government interaction, emphasizing that legal and regulatory frameworks can help to create trust in financial processes. The contributors offer novel takes and unexpected insights that will be of interest to fintech experts and nonexperts alike.

David L. Shrier is a Professor of Practice (AI and Innovation) with Imperial College Business School. He is coeditor of *New Solutions for Cybersecurity* (MIT Press). **Alex “Sandy” Pentland** directs the MIT-wide initiative MIT Connection Science. Called one of the “seven most powerful data scientists in the world” by *Forbes*, he has cofounded more than a dozen companies and is the author of *Social Physics* and coauthor of *Building the New Economy* (MIT Press).

business | management

March | 5 1/4 x 8, 320 pp. | 11 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54366-8

MIT Connection Science & Engineering

Active Inference

The Free Energy Principle in Mind, Brain, and Behavior

Thomas Parr, Giovanni Pezzulo, and Karl J. Friston

The first comprehensive treatment of active inference, an integrative perspective on brain, cognition, and behavior used across multiple disciplines.

Active inference is a way of understanding sentient behavior—a theory that characterizes perception, planning, and action in terms of probabilistic inference. Developed by theoretical neuroscientist Karl Friston over years of groundbreaking research, active inference provides an integrated perspective on brain, cognition, and behavior that is increasingly used across multiple disciplines including neuroscience, psychology, and philosophy. Active inference puts the action into perception. This book offers the first comprehensive treatment of active inference, covering theory, applications, and cognitive domains.

Active inference is a “first principles” approach to understanding behavior and the brain, framed in terms of a single imperative to minimize free energy. The book emphasizes the implications of the free energy principle for understanding how the brain works. It first introduces active inference both conceptually and formally, contextualizing it within current theories of cognition. It then provides specific examples of computational models that use active inference to explain such cognitive phenomena as perception, attention, memory, and planning.

Thomas Parr is a Postdoctoral Scholar at the Wellcome Centre for Human Neuroimaging at the Queen Square Institute of Neurology at University College London and a practicing clinician. **Giovanni Pezzulo** is a Researcher at the Institute of Cognitive Sciences and Technologies of the National Research Council of Italy in Rome. **Karl J. Friston** is Scientific Director of the Wellcome Centre for Human Neuroimaging and Professor at Queen Square Institute of Neurology at University College London.

cognitive science | neuroscience

March | 6 x 9, 312 pp. | 58 illus.

US \$40.00X/\$54.00 CAN cloth

978-0-262-04535-3

The Secret Life of Literature

Lisa Zunshine

An innovative account that brings together cognitive science, ethnography, and literary history to examine patterns of “mindreading” in a wide range of literary works.

For over four thousand years, writers have been experimenting with what cognitive scientists call “mind-reading”: constantly devising new social contexts for making their audiences imagine complex mental states of characters and narrators. In *The Secret Life of Literature*, Lisa Zunshine uncovers these mindreading patterns, which have, until now, remained invisible to both readers and critics, in works ranging from *The Epic of Gilgamesh* to *Invisible Man*. Bringing together cognitive science, ethnography, and literary studies, this engaging book transforms our understanding of literary history.

Central to Zunshine’s argument is the exploration of mental states “embedded” within each other, as, for instance, when Ellison’s *Invisible Man* is aware of how his white Communist Party comrades pretend not to understand what he means, when they want to reassert their position of power. Paying special attention to how race, class, and gender inform literary embeddings, Zunshine contrasts this dynamic with real-life patterns studied by cognitive and social psychologists. She also considers community-specific mindreading values and looks at the rise and migration of embedment patterns across genres and national literary traditions, noting particularly the use of deception, eavesdropping, and shame as plot devices. Finally, she investigates mindreading in children’s literature. Stories for children geared toward different stages of development, she shows, provide cultural scaffolding for initiating young readers into a long-term engagement with the secret life of literature.

Lisa Zunshine is Bush-Holbrook Professor of English at the University of Kentucky, a Guggenheim Fellow, and the author of *Why We Read Fiction*, *Strange Concepts and the Stories They Make Possible*, and *Getting Inside Our Head*.

cognitive science

March | 6 x 9, 320 pp. | 4 illus.

US \$40.00X/\$54.00 CAN cloth

978-0-262-04633-6

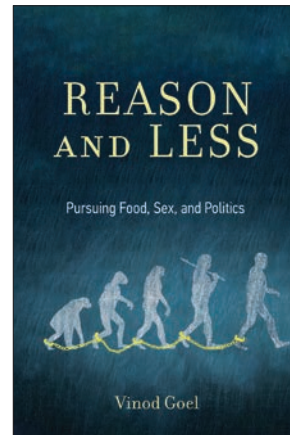
Reason and Less

Pursuing Food, Sex, and Politics

Vinod Goel

A new, biologically driven model of human behavior in which reason is tethered to the evolutionarily older autonomic, instinctive, and associative systems.

In *Reason and Less*, Vinod Goel explains the workings of the tethered mind. Reason does not float on top of our biology but is tethered to evolutionarily older autonomic, instinctive, and associative systems. After describing the conceptual and neuroanatomical basis of each system, Goel shows how they interact to generate a blended response. Goel’s common sense account drives human behavior back into the biology, where it belongs, and provides a richer set of tools for understanding how



we pursue food, sex, and politics.

Goel takes the reader on a journey through psychology (cognitive, behavioral, developmental, and evolutionary), neuroscience, philosophy, ethology, economics, and political science to explain the workings of the tethered mind. One key insight that holds everything together is that feelings—generated in old, widely conserved brain stem structures—are evolution’s solution to initiating and selecting all behaviors, and provide the common currency for the different systems to interact. Reason is as much about feelings as are lust and the taste of chocolate cake. All systems contribute to behavior and the overall control structure is one that maximizes pleasure and minimizes displeasure.

Tethered rationality has some sobering and challenging implications for such real-world human behaviors as climate change denial, Trumpism, racism, or sexism. They cannot be changed simply by targeting beliefs but will require more drastic measures, the nature of which depends on the specific behavior in question. Having an accurate model of human behavior is the crucial first step.

Vinod Goel is Professor of Cognitive Neuroscience at York University in Toronto and the author of *Sketches of Thought* (MIT Press).

cognitive sciences

February | 6 x 9 x 1, 440 pp.

US \$45.00X/\$60.00 CAN paper

978-0-262-04547-6

Cognitive Robotics

edited by Angelo Cangelosi and Minoru Asada

The current state of the art in cognitive robotics, covering the challenges of building AI-powered intelligent robots inspired by natural cognitive systems.

A novel approach to building AI-powered intelligent robots takes inspiration from the way natural cognitive systems—in humans, animals, and biological systems—develop intelligence by exploiting the full power of interactions between body and brain, the physical and social environment in which they live, and phylogenetic, developmental, and learning dynamics. This volume reports on the current state of the art in cognitive robotics, offering the first comprehensive coverage of building robots inspired by natural cognitive systems.

Contributors first provide a systematic definition of cognitive robotics and a history of developments in the field. They describe in detail five main approaches: developmental, neuro, evolutionary, swarm, and soft robotics. They go on to consider methodologies and concepts, treating topics that include commonly used cognitive robotics platforms and robot simulators, biomimetic skin as an example of a hardware-based approach, machine-learning methods, and cognitive architecture. Finally, they cover the behavioral and cognitive capabilities of a variety of models, experiments, and applications, looking at issues that range from intrinsic motivation and perception to robot consciousness.

Cognitive Robotics is aimed at an interdisciplinary audience, balancing technical details and examples for the computational reader with theoretical and experimental findings for the empirical scientist.

Angelo Cangelosi is Professor of Machine Learning and Robotics at the University of Manchester, UK, and coauthor of *Developmental Robotics* (MIT Press). **Minoru Asada** is Specially Appointed Professor in the Institute for Open and Transdisciplinary Research Initiatives at Osaka University.

computer science

May | 7 x 10, 672 pp. | 127 illus

US \$120.00X/\$157.00 CAN cloth

978-0-262-04683-1

Intelligent Robotics and Autonomous Agents series

High-Performance Big Data Computing

Dhabaleswar K. Panda, Xiaoyi Lu, and Dipti Shankar

An in-depth overview of an emerging field that brings together high-performance computing, big data processing, and deep learning.

Over the last decade, the exponential explosion of data known as big data has changed the way we understand and harness the power of data. The emerging field of high-performance big data computing, which brings together high-performance computing (HPC), big data processing, and deep learning, aims to meet the challenges posed by large-scale data processing. This book offers an in-depth overview of high-performance big data computing and the associated technical issues, approaches, and solutions.

The book covers basic concepts and necessary background knowledge, including data processing frameworks, storage systems, and hardware capabilities; offers a detailed discussion of technical issues in accelerating big data computing in terms of computation, communication, memory and storage, codesign, workload characterization and benchmarking, and system deployment and management; and surveys benchmarks and workloads for evaluating big data middleware systems. It presents a detailed discussion of big data computing systems and applications with high-performance networking, computing, and storage technologies, including state-of-the-art designs for data processing and storage systems. Finally, the book considers some advanced research topics in high-performance big data computing, including designing high-performance deep learning over big data (DLoBD) stacks and HPC cloud technologies.

Dhabaleswar K. Panda is Professor and University Distinguished Scholar of Computer Science and Engineering at the Ohio State University. **Xiaoyi Lu** is an Assistant Professor in the Department of Computer Science and Engineering at the University of California, Merced. **Dipti Shankar** is currently working at SAP, Germany.

computer science

June | 7 x 9, 288 pp.

US \$55.00X/\$73.00 CAN cloth

978-0-262-04685-5

Scientific and Engineering Computation series

Sex Dolls at Sea

Imagined Histories of Sexual Technologies

Bo Ruberg

Investigating and reimagining the origin story of the sex doll through the tale of the sailor's *dames de voyage*.

The sex doll and its high-tech counterpart the sex robot have gone mainstream, as both the object of consumer desire and the subject of academic study. But sex dolls, and sexual technology in general, are nothing new. Sex dolls have been around for centuries. In *Sex Dolls at Sea*, Bo Ruberg explores the origin story of the sex doll, investigating its cultural implications and considering who has been marginalized and who has been privileged in the narrative.

Ruberg examines the generally accepted story that the first sex dolls were *dames de voyage*, rudimentary figures made of cloth and leather scraps by European sailors on long, lonely ocean voyages in centuries past. In search of supporting evidence for the lonesome sailor sex doll theory, Ruberg uncovers the real history of the sex doll. The earliest commercial sex dolls were not the *dames de voyage* but the *femmes en caoutchouc*: “women” made of inflatable vulcanized rubber, beginning in the late nineteenth century.

Interrogating the sailor sex doll origin story, Ruberg finds beneath the surface a web of issues relating to gender, sexuality, race, and colonialism. What has been lost in the history of the sex doll and other sex tech, Ruberg tells us, are the stories of the sex workers, women, queer people, and people of color whose lives have been bound up with these technologies.

Bo Ruberg is Associate Professor in the Department of Film and Media Studies at the University of California, Irvine, and the author of *The Queer Games Avant-Garde* and *Video Games Have Always Been Queer*.

cultural studies | technology

June | 6 x 9, 296 pp. | 40 photos

US \$30.00X/\$40.00 CAN paper

978-0-262-54367-5

Media Origins series

Embodying Design

An Applied Science of Radical Embodied Cognition

Christopher Baber

Rethinking design through the lens of embodied cognition provides a novel way of understanding human interaction with technology.

In this book, Christopher Baber uses embodied cognition as a lens through which to view both how designers engage in creative practices and how people use designed artifacts. This view of cognition as enactive, embedded, situated, or distributed, without recourse to internal representations, provides a theoretical grounding that makes possible a richer account of human interaction with technology. This understanding of everyday interactions with things in the world reveals opportunities for design to intervene. Moreover, Baber argues, design is an embodied activity in which the continual engagement between designers and their materials is at the heart of design practice.

Baber proposes that design and creativity should be considered in dynamic, rather than discrete, terms and explores “task ecologies”—the concept of environment as it relates to embodied cognition. He uses a theory of affordance as an essential premise for design practice, arguing that affordances are neither form nor function but arise from the dynamics within the human-artifact-environment system. Baber explores agency and intent of smart devices and implications of tangible user interfaces and activity recognition for human-computer interaction. He proposes a systems view of human-artifact-environment interactions—to focus on any one component or pairing misses the subtleties of these interactions. The boundaries between components remain, but the borders that allow exchange of information and action are permeable, which gives rise to synergies and interactions.

Christopher Baber is Chair of Pervasive and Ubiquitous Computing in the School of Computer Science at the University of Birmingham.

design | technology

March | 6 x 9, 216 pp. | 24 illus.

US \$40.00X/\$54.00 CAN paper

978-0-262-54378-1

Bounded Rationality

Heuristics, Judgment, and Public Policy

Sanjit Dhami and Cass R. Sunstein

Two leaders in the field explore the foundations of bounded rationality and its effects on choices by individuals, firms, and the government.

Bounded rationality recognizes that human behavior departs from the perfect rationality assumed by neoclassical economics. In this book, Sanjit Dhami and Cass Sunstein explore the foundations of bounded rationality and consider the implications of this approach for public policy and law, in particular for questions about choice, welfare, and freedom. The authors, both recognized as experts in the field, cover a wide range of empirical findings and assess theoretical work that attempts to explain those findings. Their presentation is comprehensive, coherent, and lucid, with even the most technical material explained accessibly. They not only offer observations and commentary on the existing literature but also explore new insights, ideas, and connections.

After examining the traditional neoclassical framework, which they refer to as the Bayesian rationality approach (BRA), and its empirical issues, Dhami and Sunstein offer a detailed account of bounded rationality and how it can be incorporated into the social and behavioral sciences. They also discuss a set of models of heuristics-based choice and the philosophical foundations of behavioral economics. Finally, they examine libertarian paternalism and its strategies of “nudges.”

Sanjit Dhami is Professor of Economics at the University of Leicester and the author of the seven-volume *The Foundations of Behavioral Economic Analysis*. **Cass R. Sunstein** is Robert Walmsley University Professor at Harvard Law School and Chair of the Technical Advisory Group on Behavioral Insights and Sciences at the World Health Organization. He is the author of *Sludge* (MIT Press), *Nudge* (with Richard H. Thaler), and other books.

economics | social science

July | 6 x 9, 640 pp. | 19 illus.

US \$60.00X/\$79.00 CAN paper

978-0-262-54370-5

Digital Work in the Planetary Market

edited by Mark Graham and Fabian Ferrari

Understanding the embedded and disembedded, material and immaterial, territorialized and deterritorialized natures of digital work.

Many jobs today can be done from anywhere. Digital technology and widespread internet connectivity allow almost anyone, anywhere, to connect to anyone else to communicate and exchange files, data, video, and audio. In other words, work can be deterritorialized at a planetary scale. This book examines the implications for both work and workers when work is commodified and traded beyond local labor markets. Going beyond the usual “world is flat” globalization discourse, contributors look at both the transformation of work itself and the wider systems, networks, and processes that enable digital work in a planetary market, offering both empirical and theoretical perspectives.

The contributors—leading scholars and experts from a range of disciplines—touch on a variety of issues, including content moderation, autonomous vehicles, and voice assistants. They first look at the new experience of work, finding that, despite its planetary connections, labor remains geographically sticky and embedded in distinct contexts. They go on to consider how planetary networks of work can be mapped and problematized, discuss the productive multiplicity and interdisciplinarity of thinking about digital work and its networks, and, finally, imagine how planetary work could be regulated.

Mark Graham is Professor of Internet Geography at the Oxford Internet Institute, and Faculty Fellow at the Alan Turing Institute. He is the editor of *Digital Economies at Global Margins* (MIT Press and IDRC).

Fabian Ferrari is a doctoral candidate at the Oxford Internet Institute.

technology | economics

May | 7 x 9, 336 pp. | 19 illus.

US \$60.00X/\$79.00 CAN paper

978-0-262-54376-7

International Development Research Centre series

Financial Economics

Antonio Mele

A comprehensive reference for financial economics, balancing theoretical explanations, empirical evidence, and the practical relevance of knowledge in the field.

This volume offers a comprehensive, integrated treatment of financial economics, tracking the major milestones in the field and providing methodological tools. Doing so, it balances theoretical explanations, empirical evidence, and practical relevance. It illustrates nearly a century of theoretical advances with a vast array of models, showing how real phenomena (and, at times, market practice) have helped economists reformulate existing theories. Throughout, the book offers examples and solved problems that help readers understand the main lessons conveyed by the models analyzed. The book provides a unique and authoritative reference for the field of financial economics.

Part I offers the foundations of the field, introducing asset evaluation, information problems in asset markets and corporate finance, and methods of statistical inference. Part II explains the main empirical facts and the challenges these pose for financial economists, which include excess price volatility, market liquidity, market dysfunctionalities, and the countercyclical behavior of market volatility. Part III covers the main instruments that protect institutions against the volatilities and uncertainties of capital markets described in part II. Doing so, it relies on models that have become the market standard, and incorporates practices that emerged from the 2007–2008 financial crisis.

Antonio Mele is Professor of Finance at the Università della Svizzera Italiana, Senior Chair of the Swiss Finance Institute, and a Research Fellow at the Centre for Economic Policy Research in London.

economics

May | 8 x 10, 1288 pp. | 186 illus.

US \$230.00X/\$298.00 CAN cloth
978-0-262-04684-8

Karl Brunner and Monetarism

edited by Thomas Moser and Marcel Savioz

foreword by Thomas J. Jordan

Economists consider the legacy of Karl Brunner's monetarism and its influence on current debates over monetary policy.

Monetarism emerged in the 1950s and 1960s as a school of economic thought that questioned certain tenets of Keynesianism. Emphasizing the monetary nature of inflation and the responsibility of central banks for price stability, monetarism held sway in the inflation-plagued 1970s, but saw its influence begin to decline in the 1980s. Although Milton Friedman is the economist most closely associated with the development of monetarism, it was Karl Brunner (1916–1989) who introduced the term into the current vocabulary of economics and shaped its meaning. In this volume, leading economists—many of them Brunner's friends and former colleagues—consider the influence of Brunner's monetarism on current debates over monetary policy.

Some contributors were participants in debates between Keynesians and monetarists; others analyze specific aspects of monetarism as theorized by Brunner and his close collaborator Allan Meltzer, or address its influence on US and European monetary policy. Others take the opportunity to examine Brunner-Meltzer monetarism through the lens of contemporary macroeconomics and monetary models. The book grows out of a symposium that marked the 100th anniversary of Brunner's birth.

Thomas Moser is Alternate Member of the Governing Board of the Swiss National Bank. **Marcel Savioz** is former Head of Research Coordination and Economic Education at the Swiss National Bank.

Contributors

Ernst Baltensperger, Michael D. Bordo, Pierrick Clerc, Alex Cukierman, Michel De Vroey, James Forder, Benjamin M. Friedman, Kevin D. Hoover, Thomas J. Jordan, David Laidler, Allan H. Meltzer, Thomas Moser, Edward Nelson, Juan Pablo Nicolini, Charles I. Plosser, Kenneth Rogoff, Marcel Savioz, Jürgen von Hagen, Stephen Williamson

economics

March | 6 x 9, 488 pp. | 53 illus.

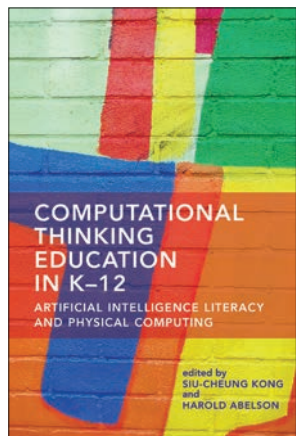
US \$50.00X/\$66.00 CAN cloth
978-0-262-04691-6

Computational Thinking Education in K–12

Artificial Intelligence Literacy and Physical Computing
edited by Siu-Cheung Kong and Harold Abelson

A guide to computational thinking education, with a focus on artificial intelligence literacy and the integration of computing and physical objects.

Computing has become an essential part of today's primary and secondary school curricula. In recent years,



K–12 computer education has shifted from computer science itself to the broader perspective of computational thinking (CT), which is less about technology than a way of thinking and solving problems—“a fundamental skill for everyone, not just computer scientists,” in the words of Jeanette Wing, author of a foundational article on CT. This volume introduces a variety of approaches to

CT in K–12 education, offering a wide range of international perspectives that focus on artificial intelligence (AI) literacy and the integration of computing and physical objects.

The book first offers an overview of CT and its importance in K–12 education, covering such topics as the rationale for teaching CT; programming as a general problem-solving skill; and the “phenomenon-based learning” approach. It then addresses the educational implications of the explosion in AI research, discussing, among other things, the importance of teaching children to be conscientious designers and consumers of AI. Finally, the book examines the increasing influence of physical devices in CT education, considering the learning opportunities offered by robotics.

Siu-Cheung Kong is Professor of IT in Education and the Director of Centre for Learning, Teaching and Technology at the Education University of Hong Kong. **Harold Abelson** is Class of 1922 Professor of Electrical Engineering and Computer Science at MIT and Founding Director of Creative Commons, Public Knowledge, and the Free Software Foundation. He is the coauthor of the widely used textbook *Structure and Interpretation of Computer Programs* (MIT Press) and other books.

education

May | 6 x 9, 296 pp. | 62 illus.

US \$60.00X/\$79.00 CAN paper
978-0-262-54347-7

Movement Matters

How Embodied Cognition Informs Teaching and Learning

edited by Sheila L. Macrine and Jennifer M. B. Fugate

Experts translate the latest findings on embodied cognition from neuroscience, psychology, and cognitive science to inform teaching and learning pedagogy.

Embodied cognition represents a radical shift in conceptualizing cognitive processes, in which cognition develops through mind-body environmental interaction. If this supposition is correct, then the conventional style of instruction—in which students sit at desks, passively receiving information—needs rethinking. *Movement Matters* considers the educational implications of an embodied account of cognition, describing the latest research applications from neuroscience, psychology, and cognitive science and demonstrating their relevance for teaching and learning pedagogy. The contributors cover a range of content areas, explaining how the principles of embodied cognition can be applied in classroom settings.

After a discussion of the philosophical and theoretical underpinnings of embodied cognition, contributors describe its applications in language, including the areas of handwriting, vocabulary, language development, and reading comprehension; STEM areas, emphasizing finger counting and the importance of hand and body gestures in understanding physical forces; and digital learning technologies, including games and augmented reality. Finally, they explore embodied learning in the social-emotional realm, including how emotional granularity, empathy, and mindfulness benefit classroom learning.

Movement Matters introduces a new model, translational learning sciences research, for interpreting and disseminating the latest empirical findings in the burgeoning field of embodied cognition. The book provides an up-to-date, inclusive, and essential resource for those involved in educational planning, design, and pedagogical approaches.

Sheila L. Macrine is Professor in the Department of STEM Education and Teacher Development at the University of Massachusetts Dartmouth. **Jennifer M. B. Fugate** is Associate Professor in the Department of Health Service Psychology at Kansas City University.

education | psychology

April | 6 x 9, 344 pp. | 50 illus.

US \$60.00X/\$79.00 CAN paper
978-0-262-54348-4

Hidden in Plain Sight

The History, Science, and Engineering
of Microfluidic Technology

Albert Folch

**Stories behind essential microfluidic devices,
from the inkjet printer to DNA sequencing chip.**

Hidden from view, microfluidics underlies a variety of devices that are essential to our lives, from inkjet printers to glucometers for the monitoring of diabetes. Microfluidics—which refers to the technology of miniature fluidic devices and the study of fluids at submillimeter levels—is invisible to most of us because it is hidden beneath ingenious user interfaces. In this book, Albert Folch, a leading researcher in microfluidics, describes the development and use of key microfluidic devices. He explains not only the technology but also the efforts, teams, places, and circumstances that enabled these inventions.

Folch reports, for example, that the inkjet printer was one of the first microfluidic devices invented, and traces its roots back to nineteenth-century discoveries in the behavior of fluid jets. He also describes how rapid speed microfluidic DNA sequencers have enabled the sequencing of animal, plant, and microbial species genomes; organs on chips facilitate direct tests of drugs on human tissue, leapfrogging over the usual stage of animal testing; at-home pregnancy tests are based on clever microfluidic principles; microfluidics can be used to detect cancer cells in the early stages of metastasis; and the same technology that shoots droplets of ink on paper in inkjet printers enables 3D printers to dispense layers of polymers. Folch tells the stories behind these devices in an engaging style, accessible to nonspecialists. More than 100 color illustrations show readers amazing images of microfluids under the microscope.

Albert Folch is Professor in the Department of Bioengineering at the University of Washington. He is the author of the widely used textbook *Introduction to BioMEMS* and other books.

science | engineering

March | 6 x 9, 344 pp. | 122 color illus., 8 b&w illus.

US \$40.00X/\$54.00 CAN cloth

978-0-262-04689-3

From Big Oil to Big Green

Holding the Oil Industry to Account for the
Climate Crisis

Marco Grasso

**How Big Oil can transform itself into Big Green
through reparation and decarbonization to rectify
the harm it has done through fossil fuels.**

In *From Big Oil to Big Green*, Marco Grasso examines the responsibility of the oil and gas industry for the climate crisis and develops a moral framework that lays out its duties of reparation and decarbonization to allay the harm it has done. By framing climate change as a moral issue and outlining the industry's obligation to tackle it, Grasso shows that Big Oil is a central, yet overlooked, agent of climate ethics and policy.

Grasso argues that by indiscriminately flooding the global economy with fossil fuels—while convincing the public that halting climate change is a matter of consumer choice, that fossil fuels are synonymous with energy, and that a decarbonized world would take civilization back to the Stone Age—Big Oil is morally responsible for the climate crisis. He explains that it has managed to avoid being held financially accountable for past harm and that its duty of reparation has never been theoretically developed or justified. With this book, he fills those gaps. After making the moral case for climate reparations and their implementation, Grasso develops Big Oil's duty of decarbonization, which entails its transformation into Big Green by phasing out carbon emissions from its processes and, especially, its products.

Marco Grasso is Professor of Political Geography in the Department of Sociology and Social Research at the University of Milano-Bicocca. He is the author of *Justice in Funding Adaptation under the International Climate Change Regime* and has published extensively in major scientific journals.

environment | political science

May | 6 x 9, 320 pp. | 3 illus.

US \$40.00X/\$54.00 CAN paper

978-0-262-54374-3

Discard Studies

Wasting, Systems, and Power

Max Liboiron and Josh Lepawsky

An argument that social, political, and economic systems maintain power by discarding certain people, places, and things.

Discard studies is an emerging field that looks at waste and wasting broadly construed. Rather than focusing on waste and trash as the primary objects of study, discard studies looks at wider systems of waste and wasting to explore how some materials, practices, regions, and people are valued or devalued, becoming dominant or disposable. In this book, Max Liboiron and Josh Lepawsky argue that social, political, and economic systems maintain power by discarding certain people, places, and things. They show how the theories and methods of discard studies can be applied in a variety of cases, many of which do not involve waste, trash, or pollution.

Liboiron and Lepawsky consider the partiality of knowledge and offer a theory of scale, exploring the myth that most waste is municipal solid waste produced by consumers; discuss peripheries, centers, and power, using content moderation as an example of how dominant systems find ways to discard; and use theories of difference to show that universalism, stereotypes, and inclusion all have politics of discard and even purification—as exemplified in “inclusive” efforts to broaden the Black Lives Matter movement. Finally, they develop a theory of change by considering “wasting well,” outlining techniques, methods, and propositions for a justice-oriented discard studies that keeps power in view.

Max Liboiron is Associate Professor of Geography at Memorial University of Newfoundland and Labrador and the author of *Pollution Is Colonialism*. **Josh Lepawsky** is Professor of Geography at Memorial University of Newfoundland and Labrador and the author of *Reassembling Rubbish* (MIT Press).

environmental studies

May | 5 1/4 x 8, 208 pp. | 6 illus.

US \$20.00X / \$27.00 CAN paper

978-0-262-54365-1

Power of Position

Classification and the Biodiversity Sciences

Robert D. Montoya

How biodiversity classification, with its ranking of species, has social and political implications as well as implications for the field of information studies.

The idea that species live in nature as pure and clear-cut named individuals is a fiction, as scientists well know. According to Robert D. Montoya, classifications are powerful mechanisms and we must better attend to the machinations of power inherent in them, as well as to how the effects of this power proliferate beyond the boundaries of their original intent. We must acknowledge the many ways our classifications are implicated in environmental, ecological, and social justice work—and information specialists must play a role in updating our notions of what it means to classify.

In *Power of Position*, Montoya shows how classifications are systems that relate one entity with other entities, requiring those who construct a system to value an entity's relative importance—by way of its position—within a system of other entities. These practices, says Montoya, are important ways of constituting and exerting power. Classification also has very real-world consequences. An animal classified as protected and endangered, for example, is protected by law. Montoya also discusses the Catalogue of Life, a new kind of composite classification that reconciles many local (“traditional”) taxonomies, forming a unified taxonomic backbone structure for organizing biological data. Finally, he shows how the theories of information studies are applicable to realms far beyond those of biological classification.

Robert D. Montoya is Assistant Professor in the Department of Information Studies in the School of Education and Information Studies at the University of California, Los Angeles; Director of UCLA's California Rare Book School; and Director of UCLA's Library, Ethics, and Justice Lab.

science | information science

May | 6 x 9, 272 pp. | 18 illus.

US \$40.00X / \$54.00 CAN paper

978-0-262-04527-8

History and Foundations of Information Science series

Prosodic Theory and Practice

edited by Jonathan Barnes
and Stefanie Shattuck-Hufnagel

An introduction to the the range of current theoretical approaches to the prosody of spoken utterances, with practical applications of those theories.

Prosody is an extremely dynamic field, with a rapid pace of theoretical development and a steady expansion of its influence beyond linguistics into such areas as cognitive psychology, neuroscience, computer science, speech technology, and even the medical profession. This book provides a set of concise and accessible introductions to each major theoretical approach to prosody, describing its structure and implementation and its central goals and assumptions as well as its strengths and weaknesses.

Most surveys of basic questions in prosody are written from the perspective of a single theoretical framework. This volume offers the only summary of the full range of current theoretical approaches, with practical applications of each theory and critical commentary on selected chapters.

The current abundance of theoretical approaches has sometimes led to apparent conflicts that may stem more from terminological differences, or from differing notions of what theories of prosody are meant to achieve, than from actual conceptual disagreement. This volume confronts this pervasive problem head on, by having each chapter address a common set of questions on phonology, meaning, phonetics, typology, psychological status, and transcription. Commentary is added as counterpoint to some chapters, with responses by the chapter authors, giving a taste of current debate in the field.

Jonathan Barnes is Associate Professor of Linguistics at Boston University. **Stefanie Shattuck-Hufnagel** is Principal Research Scientist in the Speech Communication Group at MIT's Research Laboratory of Electronics.

linguistics

February | 7 x 10, 464 pp.

US \$110.00X/\$143.00 CAN paper
978-0-262-54317-0

Syntax in the Treetops

Shigeru Miyagawa

A proposal that syntax extends to the domain of discourse in making core syntax link to the conversational context.

In *Syntax in the Treetops*, Shigeru Miyagawa proposes that syntax extends into the domain of discourse by making linkages between core syntax and the conversational participants. Miyagawa draws on evidence for this extended syntactic structure from a wide variety of languages, including Basque, Japanese, Italian, Magahi, Newari, Romanian, and Spanish, as well as the language of children with autism. His proposal for what happens at the highest level of the tree structure used by linguists to represent the hierarchical relationships within sentences—"in the treetops"—offers a unique contribution to the new area of study sometimes known as "syntacticization of discourse."

Miyagawa's main point is that syntax provides the basic framework that makes possible the performance of a speech act and the conveyance of meaning; although the role that syntax plays for speech acts is modest, it is critical. He proposes that the speaker-addressee layer and the Commitment Phrase (the speaker's commitment to the addressee of the truthfulness of the proposition) occur together in the syntactic treetops. In each succeeding chapter, Miyagawa examines the working of each layer of the tree and how they interact.

Shigeru Miyagawa is Professor of Linguistics at MIT and the author of *Why Move? Why Agree?* and *Agreement Beyond Phi*, both also in the Linguistic Inquiry Monographs series.

linguistics

May | 6 x 9, 272 pp. | 66 illus.

US \$50.00X/\$66.00 CAN paper
978-0-262-54349-1

Linguistic Inquiry Monographs series

Northern Sparks

Innovation, Technology Policy, and the Arts in Canada from Expo 67 to the Internet Age

Michael Century

An “episode of light” in Canada sparked by Expo 67 when new art forms, innovative technologies, and novel institutional and policy frameworks emerged together.

Understanding how experimental art catalyzes technological innovation is often prized yet typically reduced to the magic formula of “creativity.” In *Northern Sparks*, Michael Century emphasizes the role of policy and institutions by showing how novel art forms and media technologies in Canada emerged during a period of political and social reinvention, starting in the 1960s with the energies unleashed by Expo 67. Debunking conventional wisdom, Century reclaims innovation from both its present-day devotees and detractors by revealing how experimental artists critically challenge as well as discover and extend the capacities of new technologies.

Century offers a series of detailed cross-media case studies that illustrate the cross-fertilization of art, technology, and policy. These cases span animation, music, sound art and acoustic ecology, cybernetic cinema, interactive installation art, virtual reality, telecommunications art, software applications, and the emergent metadiscipline of human-computer interaction. They include Norman McLaren’s “proto-computational” film animations; projects in which the computer itself became an agent, as in computer-aided musical composition and choreography; an ill-fated government foray into interactive networking, the videotext system Telidon; and the beginnings of virtual reality at the Banff Centre. Century shows how Canadian artists approached new media technologies as malleable creative materials, while Canada undertook a political reinvention alongside its centennial celebrations. *Northern Sparks* offers a uniquely nuanced account of innovation in art and technology illuminated by critical policy analysis.

Michael Century, a musician and media arts historian, is Professor of Music and New Media at Rensselaer Polytechnic Institute. He founded the Media Arts program at the Banff Centre for the Arts.

media studies | technology

June | 6 x 9, 280 pp. | 15 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-04500-1

A Leonardo Book

Four Shades of Gray

The Amazon Kindle Platform

Simon Rowberry

This first book-length analysis of Amazon’s Kindle explores the platform’s technological, bibliographical, and social impact on publishing.

Four Shades of Gray offers the first book-length analysis of Amazon’s Kindle and its impact on publishing. Simon Rowberry recounts how Amazon built the infrastructure for a new generation of digital publications, then considers the consequences of having a single company control the direction of the publishing industry. Exploring the platform from the perspectives of technology, texts, and uses, he shows how the Kindle challenges traditional notions of platforms as discrete entities. He argues that Amazon’s influence extends beyond “disruptive technology” to embed itself in all aspects of the publishing trade; yet despite industry pushback, he says, the Kindle has had a positive influence on publishing.

Rowberry documents the first decade of the Kindle with case studies of Kindle Popular Highlights, an account of the digitization of books published after 1922, and a discussion of how Amazon’s patent filings reflect a shift in priorities. Rowberry argues that while it was initially convenient for the book trade to outsource ebook development to Amazon, doing so has had adverse consequences for publishers in the mid- and long term, limiting opportunities for developing an inclusive and forward-thinking digital platform. While it has forced publishers to embrace digital forms, the Kindle has also empowered some previously marginalized readerships. Although it is still too early to judge the long-term impact of ebooks compared with that of the older technologies of clay tablets, the printing press, and offset printing, the shockwaves of the Kindle continue to shape publishing.

Simon Rowberry is Lecturer in Publishing at University College London.

media studies | digital humanities

March | 6 x 9, 272 pp. | 35 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54350-7

Platform Studies series

Neuroscience and Philosophy

edited by Felipe De Brigard and
Walter Sinnott-Armstrong

Philosophers and neuroscientists address central issues in both fields, including morality, action, mental illness, consciousness, perception, and memory.

Philosophers and neuroscientists grapple with the same profound questions involving consciousness, perception, behavior, and moral judgment, but only recently have the two disciplines begun to work together. This volume offers fourteen original chapters that address these issues, each written by a team that includes at least one philosopher and one neuroscientist who integrate disciplinary perspectives and reflect the latest research in both fields. Topics include morality, empathy, agency, the self, mental illness,

neuroprediction, optogenetics, pain, vision, consciousness, memory, concepts, mind wandering, and the neural basis of psychological categories.

The chapters first address basic issues about our social and moral lives: how we decide to act and ought to act toward each other, how we understand each other's mental states and selves, and how we deal with pressing social problems regarding crime and mental or brain health. The following chapters consider basic issues about our mental lives: how we classify and recall what we experience, how we see and feel objects in the world, how we ponder plans and alternatives, and how our brains make us conscious and create specific mental states.

Felipe De Brigard is Fuchsberg-Levine Family Associate Professor in the Department of Philosophy at Duke University and the Duke Institute for Brain Sciences, is Core Faculty at Duke's Center for Cognitive Neuroscience, and has a secondary appointment in the Department of Psychology and Neuroscience. **Walter Sinnott-Armstrong** is Chauncey Stillman Professor of Practical Ethics in the Philosophy Department and Kenan Institute for Ethics at Duke University, is Core Faculty at Duke's Center for Cognitive Neuroscience, and has secondary appointments in the Department of Psychology and Neuroscience and in the Duke University Law School.

neuroscience | philosophy

February | 6 x 9, 506 pp. | 12 illus.

US \$65.00X/\$86.00 CAN paper
978-0-262-04543-8

Design in Motion

Film Experiments at the Bauhaus

Laura A. Frahm

The first comprehensive history in English of film at the Bauhaus, exploring practices that experimented with film as an adaptable, elastic "polymedium."

With *Design in Motion*, Laura Frahm proposes an alternate history of the Bauhaus—one in which visual media, and film in particular, are crucial to the Bauhaus's visionary pursuit of integrating art and technology. In the first comprehensive examination in English of film at the Bauhaus, Frahm shows that experimentation with film spanned a range of Bauhaus practices, from textiles and typography to stage and exhibition design. Indeed, Bauhausler deployed film as an adaptable, elastic "polymedium," malleable in shape and form, unfolding and refracting into multiple material, aesthetic, and philosophical directions.

Frahm shows how the encounter with film imbued the Bauhaus of the 1920s and early 1930s with a flexible notion of design, infusing painting with temporal concepts, sculptures with moving forms, photographs with sequential aesthetics, architectural designs with a choreography of movement. Frahm considers, among other things, student works that explored light and the transparent features of celluloid and cellophane; weaving practices that incorporate cellophane; experimental films, social documentaries, and critical reportage by Bauhaus women; and the proliferation of film strips in posters, book covers, and other typographic work.

Viewing the Bauhaus's engagement with film through a media-theoretic lens, Frahm shows how film became a medium for "design in motion." Movement and process, rather than stability and fixity, become the defining characteristics of Bauhaus educational, aesthetic, and philosophical ethos.

Laura A. Frahm is John L. Loeb Associate Professor of the Humanities at Harvard University. She is the author of *Jenseits des Raums* (*Beyond Space*) and *Bewegte Räume* (*Moving Spaces*).

performing arts | film

June | 7 x 10, 392 pp. | 20 color plates, 94 photographs.

US \$40.00X/\$54.00 CAN paper
978-0-262-04518-6

A Leonardo Book

Sex Sounds

Vectors of Difference in Electronic Music

Danielle Shlomit Sofer

An investigation of sexual themes in electronic music since the 1950s, with detailed case studies of “electrosexual music” by a wide range of creators.

In *Sex Sounds*, Danielle Shlomit Sofer investigates the repeated focus on sexual themes in electronic music since the 1950s. Debunking electronic music’s origin myth—that it emerged in France and Germany, invented by Pierre Schaeffer and Karlheinz Stockhausen, respectively—Sofer defines electronic music more inclusively to mean any music with an electronic component, drawing connections between academic institutions, radio studios, experimental music practice, hip-hop production, and histories of independent and commercial popular music. Through a broad array of detailed case studies—examining music that ranges from Schaeffer’s *musique concrète* to a video workshop by Annie Sprinkle—Sofer offers a groundbreaking look at the social and cultural impact sex has had on audible creative practices.

Sofer argues that “electrosexual music” has two central characteristics: the feminized voice and the “climax mechanism.” Sofer traces the historical fascination with electrified sex sounds, showing that works representing women’s presumed sexual experience operate according to masculinist heterosexual tropes, and presenting examples that typify the electroacoustic sexual canon. Noting electronic music history’s exclusion of works created by women, people of color, women of color, and, in particular Black artists, Sofer then analyzes musical examples that depart from and disrupt the electroacoustic norms, showing how even those that resist the norms sometimes reinforce them. These examples are drawn from categories of music that developed in parallel with conventional electroacoustic music, separated—segregated—from it. Sofer demonstrates that electrosexual music is far more representative than the typically presented electroacoustic canon.

Danielle Shlomit Sofer is a music theorist and musicologist and cofounded the LGBTQ+ Music Study Group.

performing arts | music

July | 6 x 9, 408 pp. | 31 illus.

US \$40.00X/\$54.00 CAN paper

978-0-262-04519-3

The Art of Abduction

Igor Douven

A novel defense of abduction, one of the main forms of nondeductive reasoning.

With this book, Igor Douven offers the first comprehensive defense of abduction, a form of nondeductive reasoning. Abductive reasoning, which is guided by explanatory considerations, has been under normative pressure since the advent of Bayesian approaches to rationality. Douven argues that, although it deviates from Bayesian tenets, abduction is nonetheless rational. Drawing on scientific results, in particular those from reasoning research, and using computer simulations, Douven addresses the main critiques of abduction. He shows that versions of abduction can perform better than the currently popular Bayesian approaches—and can even do the sort of heavy lifting that philosophers have hoped it would do.

Douven examines abduction in detail, comparing it to other modes of inference, explaining its historical roots, discussing various definitions of abduction given in the philosophical literature, and addressing the problem of underdetermination. He looks at reasoning research that investigates how judgments of explanation quality affect people’s beliefs and especially their changes of belief. He considers the two main objections to abduction, the dynamic Dutch book argument, and the inaccuracy-minimization argument, and then gives abduction a positive grounding, using agent-based models to show the superiority of abduction in some contexts. Finally, he puts abduction to work in a well-known underdetermination argument, the argument for skepticism regarding the external world.

Igor Douven is CNRS Research Professor at the Sorbonne and the author of *The Epistemology of Indicative Conditionals*.

philosophy

May | 6 x 9, 328 pp. | 23 illus.

US \$45.00X/\$60.00 CAN paper

978-0-262-04670-1

Beyond Heaven and Earth

A Cognitive Theory of Religion

Gabriel Levy

An approach to understanding religion that draws on both humanities and natural science but rejects approaches that employ simple monisms and radical dualisms.

In *Beyond Heaven and Earth*, Gabriel Levy argues that collective religious narratives and beliefs are part of nature; they are the basis for the formation of the narratives and beliefs of individuals. Religion grows out of the universe, but to make sense of it we have to recognize the paradox that the universe is both mental and material (or neither). We need both humanities and natural science approaches to study religion and religious meaning, Levy contends, but we must also recognize the limits

of these approaches. First, we must make the dominant metaphysics that undergird the various disciplines of science and humanities more explicit, and second, we must reject those versions of metaphysics that maintain simple monisms and radical dualisms.

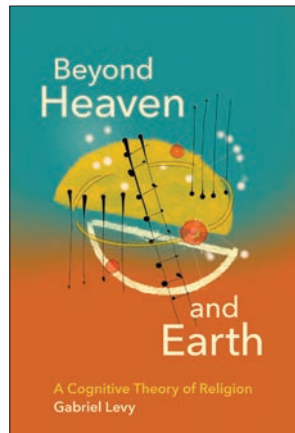
Bringing Donald Davidson's philosophy—a form of pragmatism known as anomalous monism—to bear on religion, Levy offers a blueprint for one way that the humanities and natural sciences can have a mutually respectful dialogue. Levy argues that in order to understand religions we have to take their semantic content seriously. We need to rethink such basic concepts as narrative fiction, information, agency, creativity, technology, and intimacy. In the course of his argument, Levy considers the relation between two closely related semantics, fiction and religion, and outlines a new approach to information. He then applies his theory to discrete cases: ancient texts, modern media, and intimacy.

Gabriel Levy is Professor of Religious Studies at the Norwegian University of Science and Technology in Trondheim, Norway, and the author of *Judaic Technologies of the Word*.

philosophy

February | 6 x 9, 264 pp. | 15 illus.

US \$45.00X/\$60.00 CAN paper
978-0-262-54324-8

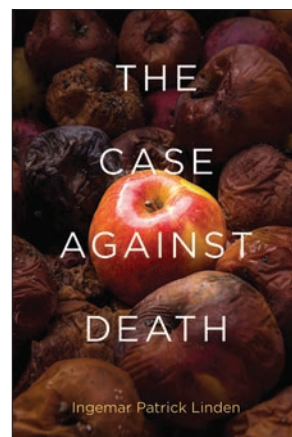


The Case Against Death

Ingemar Patrick Linden

A philosopher refutes our culturally embedded acceptance of death, arguing instead for the desirability of anti-aging science and radical life extension.

Ingemar Patrick Linden's central claim is that death is evil. In this first comprehensive refutation of the most



common arguments in favor of human mortality, he writes passionately in favor of anti-aging science and radical life extension. We may be on the cusp of a new human condition, where scientists seek to break through the arbitrarily set age limit of human existence, to address aging as an illness that can be cured. The book, however, is not about the science and technology of

life extension but whether we should want more life. For Linden, the answer is a loud and clear “yes.”

The acceptance of death is deeply embedded in our culture. Linden examines the views of major philosophical voices of the past, whom he calls “death’s ardent advocates.” These include the Buddha, Socrates, Plato, Lucretius, and Montaigne. All have taught what he calls “the Wise View,” namely, that we should not fear death. After setting out his case against death, Linden systematically examines each of the accepted arguments for death—that aging and death are natural, that death is harmless, that life is overrated, that living longer would be boring, and that death saves us from overpopulation. He concludes with a “dialogue concerning the badness of human mortality.” Though Linden acknowledges that *The Case Against Death* is a negative polemic, he also defends it as optimistic, in that the badness of death is a function of the goodness of life.

Ingemar Patrick Linden taught philosophy at NYU for nearly a decade. He is researching public attitudes to radical life extension.

philosophy

February | 6 x 9, 270 pp.

US \$45.00X/\$60.00 CAN paper
978-0-262-54316-3

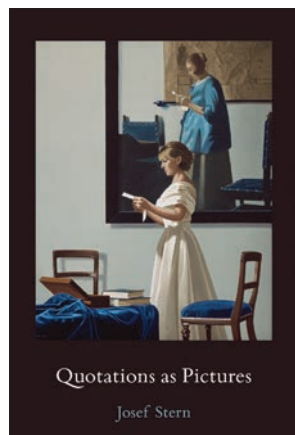
Basic Bioethics series

Quotations as Pictures

Josef Stern

The proposal of a semantics for quotations using explanatory notions drawn from philosophical theories of pictures.

In *Quotations as Pictures*, Josef Stern develops a semantics for quotations using explanatory notions drawn from



philosophical theories of pictures. He offers the first sustained analysis of the practice of quotation proper, as opposed to mentioning. Unlike other accounts that treat quotation as mentioning, *Quotations as Pictures* argues that the two practices have independent histories, that they behave differently semantically, that the inverted commas employed in both mentioning and

quotation are homonymous, that so-called mixed quotation is nothing but subsentential quotation, and that the major problem of quotation is to explain its dual reference or meaning—its ordinary meaning and its metalinguistic reference to the quoted phrase attributed to the quoted subject.

Stern argues that the key to understanding quotation is the idea that quotations are pictures or have a pictorial character. As a phenomenon where linguistic competence meets a nonlinguistic symbolic ability, the pictorial, quotation is a combination of features drawn from the two different symbol systems of language and pictures, which explains the exceptional and sometimes idiosyncratic data about quotation. In light of this analysis of verbal quotation, in the last chapters Stern analyzes scare quotation as a nonliteral expressive use of the inverted commas and explores the possibility of quotation in pictures themselves.

Josef Stern is William H. Colvin Professor of Philosophy Emeritus at the University of Chicago and was the Inaugural Director of the Joyce Z. and Jacob Greenberg Center for Jewish Studies. He is the author of *Metaphor in Context* (MIT Press), *The Matter and Form of Maimonides' Guide*, and other books.

philosophy

February | 6 x 9, 248 pp. | 8 illus.

US \$50.00X/\$66.00 CAN paper

978-0-262-54313-2

Transforming Nuclear Safeguards Culture

The IAEA, Iraq, and the Future of Non-Proliferation

Trevor Findlay

The role of organizational culture in international efforts to stop the spread of nuclear weapons.

In *Transforming Nuclear Safeguards Culture*, Trevor Findlay investigates the role that organizational culture may play in preventing the spread of nuclear weapons, examining particularly how it affects the nuclear safeguards system of the International Atomic Energy Agency (IAEA), the paramount global organization in the non-proliferation field. Findlay seeks to identify how organizational culture may have contributed to the IAEA's failure to detect Iraq's attempts to acquire illicit nuclear capabilities in the decade prior to the 1990 Gulf War and how the agency has sought to change safeguards culture since then. In doing so, he addresses an important piece of the nuclear nonproliferation puzzle: how to ensure that a robust international safeguards system, in perpetuity, might keep non-nuclear states from acquiring such weapons.

Findlay, as one of the leading scholars on the IAEA, brings a valuable holistic perspective to his analysis of the agency's culture. *Transforming Nuclear Safeguards Culture* will inspire debate about the role of organizational culture in a key international organization—a culture that its member states, leadership, and staff have often sought to ignore or downplay.

Trevor Findlay is a Principal Fellow at the School of Social and Political Sciences at the University of Melbourne. He is the author of *Nuclear Energy and Global Governance: Ensuring Safety, Security and Nonproliferation*, *Unleashing the Nuclear Watchdog: Strengthening and Reform of the International Atomic Energy Agency*, and several other books and publications.

political science

May | 6 1/8 x 9 1/4, 288 pp. | 4 illus.

US \$30.00X/\$40.00 CAN paper

978-0-262-54373-6

Belfer Center Studies in International Security

Certifying China

The Rise and Limits of Transnational Sustainability Governance in Emerging Economies

Yixian Sun

A comprehensive study of the growth, potential, and limits of transnational eco-certification in China and the implications for other emerging economies.

China has long prioritized economic growth over environmental protection. But in recent years, the country has become a global leader in the fight to save the planet by promoting clean energy, cutting air and water pollution, and developing a system of green finance. In *Certifying China*, Yixian Sun explores the potential and limits of transnational eco-certification in moving the world's most populous country toward sustainable consumption and production. He identifies the forces that drive companies from three sectors—seafood, palm oil, and tea—to embrace eco-certification. The success of eco-certification, he says, will depend on the extent to which it wins support of domestic actors in fast-growing emerging economies.

The assumption of eco-certification is that demand along the supply chain can drive businesses to adopt good practices for social, environmental, and economic sustainability by specifying rules for production, third-party verification, and product labeling. Through case studies drawn from extensive fieldwork and mixed methods, Sun traces the processes by which certification programs originating from the Global North were introduced in China and gradually gained traction. He finds that the rise of eco-certification in the Chinese market is mainly driven by state actors, including government-sponsored industry associations, who seek benefits of transnational governance for their own development goals. The book challenges the conventional wisdom that the Chinese state has little interest in supporting transnational governance, offering novel insights into the interaction between state and non-state actors in earth system governance in emerging economies.

Yixian Sun is a Lecturer (Assistant Professor) in International Development at the University of Bath, UK.

political science | environment

February | 6 x 9, 224 pp. | 20 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54369-9

Earth System Governance series

Virtually Amish

Preserving Community at the Internet's Margins

Lindsay Ems

How the Amish have adopted certain digital tools in ways that allow them to work and live according to their own value system.

The Amish are famous for their disconnection from the modern world and all its devices. But, as Lindsay Ems shows in *Virtually Amish*, Old Order Amish today are selectively engaging with digital technology. The Amish need digital tools to participate in the economy— websites for ecommerce, for example, cell phones for communication on the road—but they have developed strategies for making limited use of these tools while still living and working according to the values of their community. The way they do this, Ems suggests, holds lessons for all of us about resisting the negative forces of what has been called “high-tech capitalism.”

Ems shows how the Amish do not allow technology to drive their behavior; instead, they actively configure their sociotechnical world to align with their values and protect their community's autonomy. Drawing on extensive ethnographic fieldwork conducted in two Old Order Amish settlements in Indiana, Ems explores explicit rules and implicit norms as innovations for resisting negative impacts of digital technology. She describes the ingenious contraptions the Amish devise—including “the black-box phone,” a landline phone attached to a device that connects to a cellular network when plugged into a car's cigarette lighter—and considers the value of human-centered approaches to communication. Non-Amish technology users would do well to take note of Amish methods of adopting digital technologies in ways that empower people and acknowledge their shared humanity.

Lindsay Ems is Assistant Professor of Communication and Media Studies at Butler University.

“The Amish—unlikely to be digital influencers—show us one way to draw on culture to regain control over our digital future. This compelling account of Amish resistance to digitization provides a surprising model for the rest of us.”

**—Adam Fish, Scientia Associate Professor,
University of New South Wales**

science, technology, and society

June | 6 x 9, 208 pp. | 29 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54363-7

Acting with Technology series

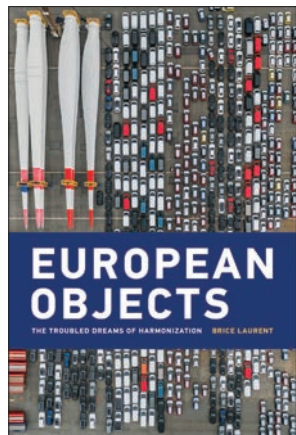
European Objects

The Troubled Dreams of Harmonization

Brice Laurent

How interventions based on objects—including chemicals, financial products, and consumer goods—offer a path to rethink European integration.

Interventions based on objects, Brice Laurent claims, have become a dominant path for European policy-making. In *European Objects*,



Laurent analyzes the political consequences of these interventions and their democratization. He uses the term “European objects” to describe technical entities that are regulated—and thereby transformed—by European policies. To uncover the bureaucratic and regulatory intricacies of European governance, Laurent focuses on a series of these objects,

including food products, chemicals, financial products, consumer goods, drinking water, and occupational environments. Laurent argues that taking European objects seriously offers a way to rephrase the dreams of harmonization and, eventually, rethink the constitutional strength of European integration.

Laurent doesn't just clarify how European regulation works, but also explores ways to realize long-term objectives for European integration, such as a harmonized market or an objective expertise. Regulation is best understood as “regulatory machinery” bringing together various types of legal constraints, material interventions on objects, and the imagining of desirable futures. Analyzing European objects enables Laurent to explore what regulation has become after years of evolution have made it a central component of the European policy world. He offers practical illustrations of how the regulatory machinery functions today. If Europe succeeds at reinventing the terms of its legitimacy with objects that matter for the European publics, it will provide a telling demonstration that the opposition of expertise and populism is not the unavoidable fate of liberal democracies.

Brice Laurent is a researcher at Mines Paris Tech, Centre de Sociologie de l'Innovation.

science, technology, and society

February | 6 x 9, 280 pp. | 2 illus.

US \$65.00X / \$86.00 CAN paper

978-0-262-54333-0

Inside Technology series

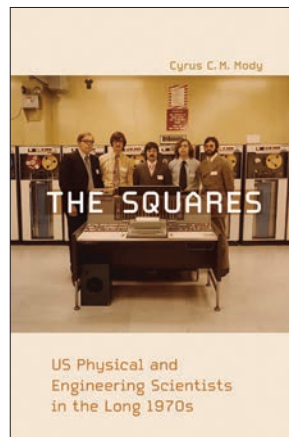
The Squares

US Physical and Engineering Scientists in the Long 1970s

Cyrus C. Mody

When ungroovy scientists did groovy science: how non-activist scientists and engineers adapted their work to a rapidly changing social and political landscape.

In *The Squares*, Cyrus Mody shows how, between the late 1960s and the early 1980s, some scientists and engineers



who did not consider themselves activists, New Leftists, or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time. These “square scientists,” Mody shows, began to do many of the things that the counterculture urged: turn away from military-industrial funding, become more interdisciplinary, and focus their

research on solving problems of civil society. During the period Mody calls “the long 1970s,” ungroovy scientists were doing groovy science.

Mody offers a series of case studies of some of these collective efforts by non-activist scientists to use their technical knowledge for the good of society. He considers the region around Santa Barbara and the interplay of public universities, think tanks, established firms, new companies, philanthropies, and social movement organizations. He looks at Stanford University's transition from Cold War science to commercialized technoscience; NASA's search for a post-Apollo mission; the unsuccessful foray into solar energy by Nobel laureate Jack Kilby; the “civilianization” of the US semiconductor industry; and systems engineer Arthur D. Hall's ill-fated promotion of automated agriculture.

Cyrus C. Mody is Professor of the History of Science, Technology, and Innovation and Director of the Maastricht University Science, Technology and Society Studies program. He is the author of *Instrumental Community: Probe Microscopy and the Path to Nanotechnology* and *The Long Arm of Moore's Law: Microelectronics and American Science* (both published by the MIT Press).

science, technology, and society

July | 6 x 9, 416 pp.

US \$65.00X / \$86.00 CAN paper

978-0-262-54361-3

Inside Technology series

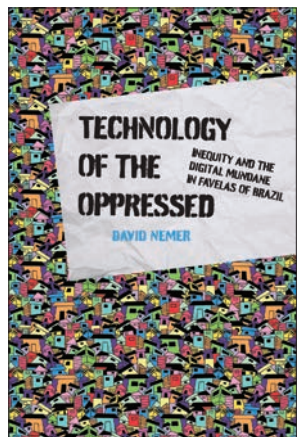
Technology of the Oppressed

Inequity and the Digital Mundane in Favelas of Brazil

David Nemer

How Brazilian favela residents engage with and appropriate technologies, both to fight the oppression in their lives and to represent themselves in the world.

Brazilian favelas are impoverished settlements usually located on hillsides or the outskirts of a city. In *Technology of the Oppressed*, David



Nemer draws on extensive ethnographic fieldwork to provide a rich account of how favela residents engage with technology in community technology centers and in their everyday lives. Their stories reveal the structural violence of the information age. But they also show how those oppressed by technology don't just reject it, but consciously resist and appropriate it, and how

their experiences with digital technologies enable them to navigate both digital and nondigital sources of oppression—and even, at times, to flourish.

Nemer uses a decolonial and intersectional framework called Mundane Technology as an analytical tool to understand how digital technologies can simultaneously be sites of oppression and tools in the fight for freedom. Building on the work of the Brazilian educator and philosopher Paulo Freire, he shows how the favela residents appropriate everyday technologies—technological artifacts (cell phones, Facebook), operations (repair), and spaces (Telecenters and Lan Houses)—and use them to alleviate the oppression in their everyday lives. He also addresses the relationship of misinformation to radicalization and the rise of the new far right. Contrary to the simplistic techno-optimistic belief that technology will save the poor, even with access to technology these marginalized people face numerous sources of oppression, including technological biases, racism, classism, sexism, and censorship. Yet the spirit, love, community, resilience, and resistance of favela residents make possible their pursuit of freedom.

David Nemer is Assistant Professor of Media Studies at the University of Virginia.

technology | media studies

February | 6 x 9, 230 pp. | 3 illus.

US \$35.00X/\$47.00 CAN paper

978-0-262-54334-7

Information Society series

Seven Sublimes

David E. Nye

A reconception of the sublime to include experiences of disaster, war, outer space, virtual reality, and the Anthropocene.

We experience the sublime—overwhelming amazement and exhilaration—in at least seven different forms.

Gazing from the top of a mountain at a majestic vista is not the same thing as looking at a city from the observation deck of a skyscraper; looking at images constructed from Hubble Space Telescope data is not the same as living through a powerful earthquake. The varieties of sublime experience have increased during the last two centuries, and we need an expanded terminology to distinguish between them. In this book, David Nye delineates seven forms of the sublime: natural, technological, disastrous, martial, intangible, digital, and environmental, which express seven different relationships to space, time, and identity.

These forms of the sublime can be experienced at historic sites, ruins, cities, national parks, or on the computer screen. We find them in beautiful landscapes and gigantic dams, in battle and on battlefields, in images of black holes and microscopic particles. The older forms are tangible, when we are physically present and our senses are fully engaged; increasingly, others are intangible, mediated through technology. Nye examines each of the seven sublimes, framed by philosophy but focused on historical examples.

David E. Nye is Senior Research Fellow at the University of Minnesota's Charles Babbage Institute and Professor Emeritus of American Studies at the University of Southern Denmark. The author of twelve books with the MIT Press, including *American Technological Sublime*, he was awarded the Leonardo da Vinci Medal in 2005 and was knighted by the Queen of Denmark in 2013.

science, technology and society

May | 6 x 9, 208 pp. | 19 illus.

US \$35.00X/\$47.00 CAN cloth

978-0-262-04692-3

Art, Science, and the Politics of Knowledge

Hannah Star Rogers

How the tools of STS can be used to understand art and science and the practices of these knowledge-making communities.

In *Art, Science, and the Politics of Knowledge*, Hannah Star Rogers suggests that art and science are not as different from each other as we might assume. She shows how the tools of science and technology studies (STS) can be applied to artistic practice, offering new ways of thinking about people and objects that have largely fallen outside the scope of STS research. Arguing that the categories of art and science are labels with specific powers to order social worlds—and that art and science are best understood as networks that produce knowledge—Rogers shows, through a series of cases, the similarities and overlapping practices of these knowledge communities.

The cases, which range from nineteenth-century artisans to contemporary bioartists, illustrate how art can provide the basis for a new subdiscipline called art, science, and technology studies (ASTS), offering hybrid tools for investigating art–science collaborations. Rogers’s subjects include the work of father and son glassblowers, the Blaschkas, whose glass models, produced in the nineteenth century for use in biological classification, are now displayed as works of art; the physics photographs of documentary photographer Berenice Abbott; and a bioart lab that produces work functioning as both artwork and scientific output. Finally, Rogers, an STS scholar and contemporary art–science curator, draws on her own work to consider the concept of curation as a form of critical analysis.

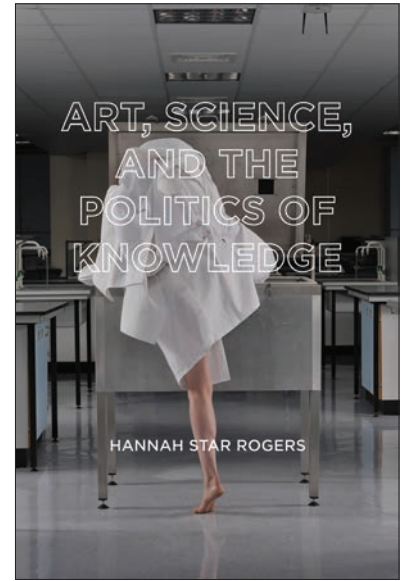
Hannah Star Rogers is Visiting Scholar at the University of Edinburgh in Science, Technology, and Innovation Studies (STIS) and lead editor of the *Routledge Handbook of Art, Science, and Technology Studies*.

science, technology and society

May | 6 x 9, 304 pp. | 42 illus.

US \$50.00X/\$66.00 CAN paper

978-0-262-54368-2



Isa Genzken

Fuck the Bauhaus

André Rottmann

A strikingly original analysis of Isa Genzken's move toward merging sculptural and architectural morphologies into the critique of commodity culture.

Fuck the Bauhaus, made in the year 2000 out of quotidian objects and cheap materials foraged from New York City



by the German artist Isa Genzken, marked a poetic and provocative departure from Genzken's earlier work. Since the 1970s, Genzken's "post-Minimalist" works had been like ruins in reverse, conjuring the haunting specters of recent catastrophe, destruction, and failure in the United States, while also playfully suggesting a degree of freedom and elevation.

Analyzing how this mode gave way to a new penchant for appropriation, collage, and montage, André Rottmann offers a strikingly original analysis of Genzken's move toward merging sculptural and architectural morphologies into the critique of commodity culture. In this new addition to the One Work series, Rottmann draws on the writings of Deleuze and Guattari, Bruno Latour, and other contemporaneous theorists of "assemblage" to illuminate Genzken's work as a powerful reimagination of social relations in flux.

André Rottmann is a Research Fellow and Lecturer in the Department of Art History at Freie Universität, Berlin, and the editor of the October Files volume *John Knight*.

art

April | 6 x 8 1/2, 96 pp. | 32 color illus.

US \$19.95T/\$25.95 CAN paper

978-1-84638-253-6

One Work series

Distributed for Afterall Books

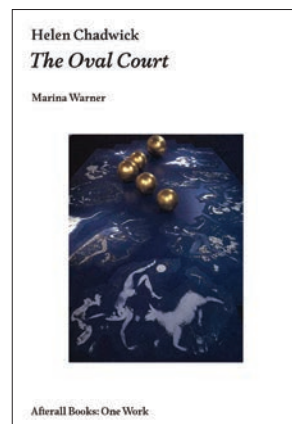
Helen Chadwick

The Oval Court

Marina Warner

An illustrated exploration of Helen Chadwick's erotic, playful, and fierce 1986 installation.

In 1986 the Institute of Contemporary Arts in London showed a new commission by the artist Helen Chadwick (1954–1996). What



Chadwick conceived for the ICA exhibition explored her characteristic themes—the female body (her own), the aesthetics of pleasure, the material variety and wonder of phenomena—but took them in a new, flamboyant direction. In this illustrated volume, Marina Warner examines one part of Chadwick's installation, *The Oval Court*. This work was erotic, playful, and fierce;

it showed imaginative ambition on an exceptional scale and a unique, piquant sensibility, both raunchy and delicate.

Despite the work's recognition as a feminist monument of rare intensity, it has rarely been shown or discussed since the author's catalogue essay for the original exhibition. Warner here reconsiders Chadwick's influence as an artist who helped to shift conventional aesthetics and transvalue despised, even abominated forms. Exploring the work's richly layered composition in light of intervening years, Warner shows how Chadwick's imagination has shaped many artists' ideas and ethics, and emboldened their adventures with materials.

Marina Warner is a celebrated novelist and critic. She is the author of the National Book Critics Circle Award–winner *Stranger Magic* and many other books. Awarded the Holberg Prize in the Arts and Humanities and made a DBE in 2017, she is Professor of English and Creative Writing at Birkbeck College, University of London, President of the Royal Society of Literature, and an Honorary Fellow of the Royal Academy.

art

February | 6 x 8, 1/2, 96 pp. | 32 color illus.

US \$19.95T/\$25.95 CAN paper

978-1-84638-251-2

One Work series

Distributed for Afterall Books

Rethinking Law

edited by Amy Kapczynski

Some of today's top legal thinkers consider the ways that legal thinking has bolstered—rather than corrected—injustice.

Bringing together some of today's top legal thinkers, this volume reimagines law in the twenty-first century, zeroing in on the most vibrant debates among legal scholars today. Going beyond constitutional jurisprudence as conventionally understood, contributors show the ways in which legal thinking has bolstered rather than corrected injustice. If conservative approaches have been well served by court-centered change, contributors to *Rethinking Law* consider how progressive ones might rely

on movement-centered, legislative, and institutional change. In other words, they believe that the problems we face today are vastly bigger than can be addressed by litigation. The courts still matter, of course, but they should be less central to questions about social justice.

Contributors describe how constitutional law supported a system of economic inequality; how we might rethink the First Amendment in the age of the internet; how deeply racial bias is embedded in our laws; and what kinds of changes are necessary. They ask which is more important: the laws or how they are enforced? *Rethinking Law* considers these questions with an eye toward a legal system that truly supports a just society.

Amy Kapczynski is Professor of Law at Yale Law School and cofounder of the *Law and Political Economy* blog.

Contributors include

Jedediah Purdy, David Grewal, Jamal Greene, Reva Siegel, Jocelyn Simonson, Aziz Rana

political science | law

June | 6 x 9, 176 pp.

US \$15.95T/\$21.95 CAN paper

978-1-946511-72-0

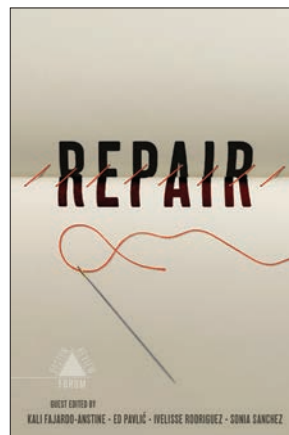
Distributed for Boston Review

Repair

edited by Kali Fajardo-Anstine, Ed Pavlić, Ivelisse Rodriguez, and Sonia Sanchez

How we can recover from terrible ruptures, the pandemic, toxic politics, racist horrors, class warfare, gendered violence, and ecological brinksmanship.

Individually and collectively, we bear deep wounds. Some of these are generations old; all have been worsened by a destructive period of pyrrhic politics that have left us ill-equipped to respond to a global health catastrophe. As we struggle to recover our footing and grieve our dead, *Boston Review* believes that the arts must have a voice in the conversation about how we heal. In this new anthology of poetry, fiction, and essays from renowned writers and newcomers, writers explore whether and how we can repair terrible ruptures, life-threatening illnesses and the pandemic, toxic politics, racist horrors, class warfare, gendered violence, and ecological brinksmanship.



Kali Fajardo-Anstine is the author of *Sabrina & Corina*, finalist for the National Book Award. **Ed Pavlić** is the author of *Live at the Bitter End*; *Who Can Afford to Improvise? James Baldwin and Black Music*, *the Lyric and the Listener*; *Let's Let That Are Not Yet: Inferno*; and other books. He is Distinguished Research Professor of English and African American Studies at the University of Georgia. **Ivelisse Rodriguez**'s short story collection, *Love War Stories*, was a 2019 PEN/Faulkner finalist and a 2018 Foreword Reviews INDIES finalist. **Sonia Sanchez**—poet, activist, scholar—is a Robert Frost Medal recipient, and winner of the 1985 American Book Award and the 1999 Langston Hughes Poetry Award. One of the most important writers of the Black Arts Movement, Sanchez is the author of sixteen books, including *Does Your House Have Lions?*, a finalist for the National Book Critics Circle Award.

literature

March | 6 x 9, 224 pp.

US \$19.95T/\$25.95 CAN paper

978-1-946511-68-3

Distributed for Boston Review



Unprecedented?

How COVID-19 Exposed the Politics of Our Economy

William Davies, Sahil Jai Dutta, Nick Taylor, and Martina Tazzioli

A critical and evidence-based account of the COVID-19 pandemic as a political-economic rupture, exposing underlying power struggles and social injustices.

Unprecedented? tells the story of the COVID-19 pandemic as one of political-economic rupture, where the basic fabric of economic and political rules was torn up and underlying power struggles and social injustices were exposed. Focusing on the case of Britain, but with lessons for all countries, this book offers a critical and evidence-based account of unprecedented events.

In early 2020, many of the most basic building blocks of capitalism were transformed in a matter of weeks, thanks to the novel coronavirus. Workplaces and schools were closed, governments took on unprecedented debt, and new technologies had to be rapidly procured and rolled out in an effort to achieve control over the pandemic. Meanwhile, lurking inequalities—of class, race, gender, and geography—were deepened and exposed in new ways, and populations became dependent on murky alliances between states and corporate contractors. Exceptional profits were reaped by some, while large sections of society teetered on the edge of destitution and despair.

William Davies is Codirector of the Political Economy Research Centre at Goldsmiths, University of London and a Co-Investigator in the ESRC-sponsored Centre for Understanding Sustainable Prosperity.

Sahil Jai Dutta is Lecturer in Political Economy and has published with the Institute for Public Policy Research, Transnational Institute, *Open Democracy*, and *New Socialist*. **Nick Taylor** is a Research Fellow for the ESRC-sponsored Centre for the Understanding of Sustainable Prosperity, working in the Political Economy Research Centre at Goldsmiths.

Martina Tazzioli is part of the editorial collective of *Radical Philosophy* and a member of the Euro-African network Migreurop.

political science

March | 5 1/4 x 8, 304 pp.

US \$24.95T/\$33.95 CAN paper

978-1-913380-12-0

PERC Papers

Distributed for Goldsmiths Press

Passport to Peckham

Culture and Creativity in a London Village

Robert Hewison

An entertaining and engaging social and cultural history of the London community of Peckham that offers lessons in urban living.

“Is there life in Peckham?” asks a pop song of the 1980s. Peckham has been treated as a joke and a place to be avoided. It has been celebrated in television comedies, and denigrated for its levels of crime. It is a center for the arts and the creative industries, yet it also suffers from social deprivation and racial tension. *Passport to Peckham* is a guide to an unofficial part of London—social and cultural history written from the ground up.

In this entertaining and engaging account, Robert Hewison invites readers to explore Peckham’s streets and presents the portrait of a community experiencing the stresses of modern living. Old and new residents rub against each other as they try to adjust to the challenges created by urban regeneration and the more subtle process of gentrification. Artists have lived and worked in Peckham for more than a century, and now Caribbean and West African communities are adding their own flavors in terms of music, drama, poetry, and film. Focused on a few square miles, *Passport to Peckham* raises issues of urban policy, planning, culture, and creativity that have a far wider application. As London and other major cities recover from the COVID crisis, are there lessons in urban living to be learned from the pleasures and pains of Peckham? The answer from one of Britain’s most distinguished cultural critics is an emphatic yes.

Robert Hewison is Honorary Professor at the Ruskin Research Centre at Lancaster University and Adjunct Professor at the Graduate School of Architecture, Planning, and Preservation at Columbia University.

history

March | 6 x 9, 224 pp. | 20 illus.

US \$34.95T/\$45.95 CAN cloth

978-1-913380-06-9

Spatial Politics

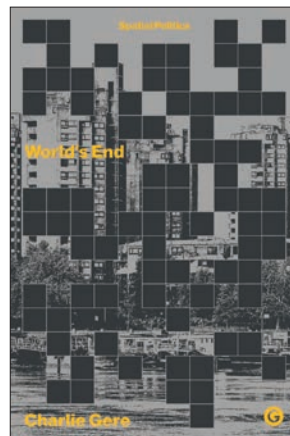
Distributed for Goldsmiths Press

World’s End

Charlie Gere

A memoir and cultural history of World’s End, a West London area once home to bohemian artists and punk rock and now an outpost of neoliberalism.

Charlie Gere’s account of growing up in the World’s End area of West London during the Cold War combines



local history, cultural history, memoir, and a strong sense of the apocalyptic. Once a rundown part of Chelsea at the wrong end of the King’s Road, the World’s End has long been a place for bohemian writers and artists, including Turner, Whistler, Beckett, Bacon, and Bacon’s muse Henrietta Moraes, all of whom evinced an appropriate apocalyptic sensibility. After World War II, in which

the area suffered severe bombing, it became a center of the counterculture that emerged from what Jeff Nuttall called “Bomb Culture,” formed by the threat of nuclear annihilation.

The famous boutique *Granny Takes a Trip* opened there in 1966, joined later on by *Hung On You*, *Puss Weber’s Flying Dragon Tea Room*, and the commune *Gandalf’s Garden*. The area also featured trepanning aristocrats and pet lions, among other eccentricities. In the 1970s, the World’s End was the center of punk rock. Gere’s parents arrived as part of a wave of gentrification, and Gere, born and brought up there, witnessed its social and cultural evolution. As an adolescent, he was traumatized by the prospect of nuclear war. He has lived long enough to see the World’s End now bearing the marks of out-of-control neoliberalism and its grotesque accompanying inequality. But this too shall pass as worlds end.

Charlie Gere is Professor of Media Theory and History at Lancaster Institute for the Contemporary Arts at Lancaster University and author of *I Hate the Lake District* (Goldsmiths Press) and other books.

history

February | 5 x 7 1/2, 208 pp.

US \$29.95T/\$39.95 CAN cloth

978-1-913380-00-7

Spatial Politics

Distributed for Goldsmiths Press

mitpress.mit.edu | Spring 2022

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Decolonial Imaginings

Intersectional Conversations and Contestations

Avtar Brah

A transdisciplinary study of the ways in which mobilities assume social forms and result in multiple belongings.

In *Decolonial Imaginings*, Avtar Brah offers a transdisciplinary study of the ways in which mobilities assume social forms and result in multiple belongings. Situated within the confluence of decolonial feminist theory, border theory, and diaspora studies, the book explores borders and boundaries and how the politics of connectivity are produced in and through struggles over “difference.” Brah examines multiple formations of power embedded in the intersections between gender, race,

class, ethnicity, and sexuality.

Discussing the crossings of impervious borders, Brah foregrounds the economies of abandonment, particularly the plight of people in boats in the Mediterranean, a number of whom perished because of a catalogue of failures by NATO warships and European coast guards. She revisits Gilles Deleuze and Felix Guattari’s notion of “nomad thought” and Braidotti’s feminist reworking of it, and seeks to assess this framework’s value today. She analyzes the politics of “Black” in Britain with a focus on feminism constituted by women of African Caribbean and South Asian background, explores stereotypic representation of Muslim women in the context of Islamophobia and anti-Muslim racism, and considers the complexities of the #MeToo movement and how whiteness is configured in these contestations.

Avtar Brah is Professor Emerita in Sociology at Birkbeck College, University of London. She has published numerous books, chapters, and articles, and is a member of the Editorial Collective of *Feminist Review* and a member of the International Editorial Board of *Identities*.

cultural studies

June | 5 1/4 x 8, 264 pp.

US \$30.00T/\$40.00 CAN paper

978-1-913380-08-3

Distributed for Goldsmiths Press

The Future of Media

Joanna Zylińska

with Goldsmiths Media

An investigation of the future of various media industries and technologies that considers how media shape our future.

How do we combat post-truth in the news? Are social media influencers the journalists of today? What jobs



will be left in the media once AI takes over? This volume investigates the future of various media industries and technologies (journalism, TV, film, photography, radio, publishing, and social media) while exploring how media shape our future.

Issues of truth, diversity, media reform, activism, and art take the discussion into a wider social context.

The book celebrates the importance and vitality of media in the modern world—and of the academic discipline of media studies, which offers a rigorous study of media. *The Future of Media* is an experiment in collaborative modes of thinking and working. Coauthored by theorists and practitioners from one of the world’s most established media departments, it offers a radical, creative, and critical “Goldsmiths take” on media industries and on world affairs. Through their timely, diverse, and often passionate analyses, along with the practice works featured on the companion website, the authors demonstrate both how to think about the media and how to produce relevant and challenging media. The book serves as an invitation to all media scholars, students, and industry practitioners to work together on trying to shape a better media future and a better world for us all.

Joanna Zylińska is Professor of New Media and Communications at Goldsmiths, University of London. The author of a number of books, including *AI Art: Machine Visions and Warped Dreams*, *The End of Man: A Feminist Counterapocalypse*, and *Nonhuman Photography* (MIT Press), she is involved in experimental and collaborative publishing projects.

media studies

February | 6 x 9, 400 pp. | 30 illus.

US \$30.00T/\$40.00 CAN paper

978-1-913380-14-4

Distributed for Goldsmiths Press

Black Mass

Aria Dean

Essays by critic, artist, and curator Aria Dean that articulate her theory of “blaccelerationism.”

Black Mass brings together a group of previously uncollected essays by critic, artist, and curator Aria Dean. Written over the past five years, these timely, wide-ranging texts deftly consider material culture’s intersections with race, technology, and politics. Spanning themes that range from trauma and necropolitics to memes and selfies, these essays offer frank, original assessments of the production and circulation of images in our accelerated media landscape.

Dean draws from Frankfurt School philosophy, Black studies, and contemporary art to articulate her theory of “blaccelerationism,” which places the Black subject at the center of the coming end of the world—as both the agent of its demise and its inheritor. With one eye on the recent past and another anticipating the near future, *Black Mass* offers a glance in the rear view mirror from a vehicle moving toward a new reality at breakneck speed.

Aria Dean is an artist, writer, and curator whose work engages questions of Blackness within internet culture, examining the generative and gratuitous workings of online cultural production. Her writings have been published in *Artforum*, *Art in America*, *Texte zur Kunst*, and elsewhere. From 2016 to 2019, Dean served as assistant curator of net art and digital culture at Rhizome, and then, from 2019 to 2020, as editor and curator there, overseeing the blog at rhizome.org and *Net Art Anthology*. Dean has shown her works widely in solo and group exhibitions at such venues as the Hammer Museum, Los Angeles; Het Hem, Amsterdam; Institute of Contemporary Art, Philadelphia; and Albright-Knox Gallery, Buffalo.

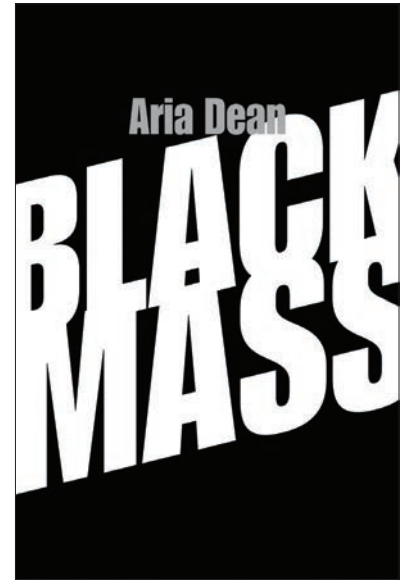
art

February | 6 x 8, 112 pp. | 28 illus.

US \$20.00T/\$27.00 CAN paper

978-1-949484-07-6

Distributed for no place press



An Oblique Autobiography

Yve-Alain Bois

Essays and reminiscences by one of the preeminent art historians of our time, spanning more than four decades.

An Oblique Autobiography assembles a new collection of essays and reminiscences by one of the preeminent art historians of our time. Spanning more than four decades of Yve-Alain Bois's work as a scholar, journal editor, and occasional curator, this volume traces a deeply personal itinerary through an important era of art history, in which the discipline—in part occasioned by Bois's own journey from France to the United States—was significantly reformulated by new methodologies.

Detailing Bois's early relationships with figures such as Roland Barthes, Hubert Damisch, Lygia Clark, and Jacques Derrida, as well as his extended engagements with Rosalind Krauss, Ellsworth Kelly, and Martin Barré, these essays track Bois's intellectual commitments against the backdrop of an evolving academic field. With texts that range from academic journal articles to obituaries, written from 1976 to 2021, *An Oblique Autobiography* reveals the range of Bois's authorial voice and offers a remarkable self-portrait of one of art history's primary protagonists.

Yve-Alain Bois, widely recognized as an expert on twentieth-century art, is the coauthor (with Rosalind E. Krauss) of *Formless: A User's Guide* and the author of *Painting as Model* (MIT Press), and an editor of *October*. His other publications include *Ellsworth Kelly: Catalogue Raisonné of Paintings, Reliefs, and Sculpture, vols. 1 and 2* and *Art Since 1900* (with Benjamin Buchloh, Hal Foster, and Rosalind E. Krauss). Currently Professor in the the School of Historical Studies at the Institute for Advanced Study in Princeton, New Jersey, he has taught at Johns Hopkins and Harvard universities and has curated or cocurated exhibitions worldwide.

art

February | 6 x 8, 304 pp. | 38 illus.

US \$20.00T/\$27.00 CAN paper

978-1-949484-08-3

Distributed for no place press

After the Bauhaus, Before the Internet

A History of Graphic Design Pedagogy

edited by Geoff Kaplan

foreword by Tim Barringer

A history of design teaching from the mid-1950s to the mid-1990s told through essays, interviews, remembrances, and primary materials.

With contributions by more than forty of the most influential voices in art, architecture, and design, *After the Bauhaus, Before the Internet* traces a history of design teaching from the mid-1950s to the mid-1990s through essays, interviews, remembrances, and primary materials. Geoff Kaplan has gathered a multigenerational group of theorists and practitioners to explore what design thinking and interdisciplinarity mean for design and its pedagogy and how they can be placed within a conceptual and historical context.

At a time when all our choices and behaviors are putatively curated, and when “design thinking” is recruited to solve problems from climate change to social media optimization, this volume looks at how design's self-understandings as a discipline have changed and how they affect the ways it writes its own histories and theories.

Geoff Kaplan of General Working Group has produced projects for a range of academic and cultural institutions, including the Museum of Modern Art, Harvard University, and the Museum of Contemporary Art, Los Angeles. His work is included in SFMoMA's and MoMA's permanent collections and he has exhibited internationally. Kaplan teaches in the graduate design program at Yale University and was the Frank Stanton Chair in Graphic Design at Cooper Union. He wrote, edited, and designed *Power to the People: The Graphic Design of the Radical Press and the Rise of the Counter-Culture, 1964–1974*.

art | design

March | 6 1/2 x 9 1/4, 368 pp. | 175 illus.

US \$45.00T/\$60.00 CAN paper

978-1-949484-09-0

Distributed for no place press

Walking Through Clear Water in a Pool Painted Black

Collected Stories

Cookie Mueller

edited by **Hedi El Kholti, Chris Kraus,
and Amy Scholder**

new edition

introduction by Olivia Laing

**A new edition of legendary writer, actress,
ex-biker, and columnist Cookie Mueller's only
story collection, featuring additional writings.**

First published in 1991, *Walking Through Clear Water in a Pool Painted Black* was the only story collection that the legendary writer, actress, ex-biker, and columnist Cookie Mueller compiled in her lifetime. Featuring a new introduction by Olivia Laing, this new edition collects all of Mueller's fiction, together with her *Details* magazine columns (1982–1989) and other writings.

The additional stories were discovered by Amy Scholder, who edited the anthology *Ask Dr. Mueller* for High Risk/Serpent's Tail books in 1996. As Scholder writes, the new stories were “written around the same time she wrote the stories in *Walking Through Clear Water*, but for some reason Cookie decided not to include them. They are darker than most of her other stories; they are the quotidian Cookie, and that is why I especially love them.” Mueller's life and work were celebrated in Chloe Griffith's 2014 oral biography *Edgewise*, which brought her work to a new generation of readers.

Cookie Mueller (1949–1989), née Dorothy Karen Mueller, played leading roles in John Waters's *Pink Flamingos*, *Female Trouble*, *Desperate Living*, and *Multiple Maniacs*. She wrote for the *East Village Eye* and *Details* magazine, performed in a series of plays by Gary Indiana, and wrote numerous stories that would only be published posthumously. She died in New York City of AIDS-related complications at age 40.

fiction

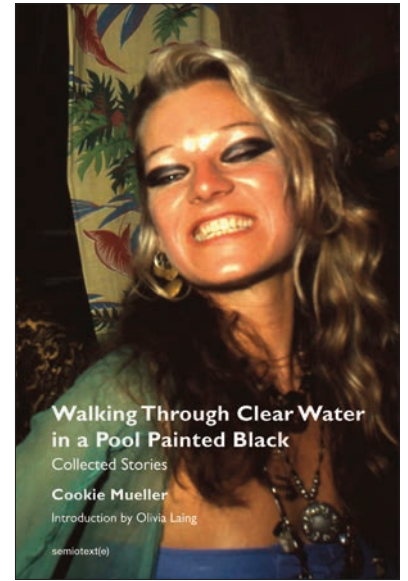
April | 5 3/8 x 8, 392 pp.

US \$17.95T/\$23.95 CAN paper

978-1-63590-166-5

Native Agents series

Distributed for Semiotext(e)



Indivisible

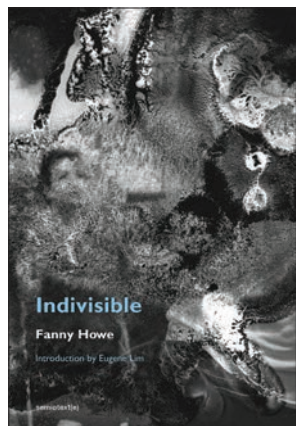
new edition

Fanny Howe

introduction by Eugene Lim

Last of a series of philosophical and personal Fanny Howe novels animated by questions of race, spirituality, childhood, transience, resistance, and poverty.

First published by Semiotexte in 2001, *Indivisible* concludes a radically philosophical and personal series



of Fanny Howe novels animated by questions of race, spirituality, childhood, transience, wonder, resistance, and poverty. Depicting the tempestuous multiracial world of artists and activists who lived in working-class Boston during the 1960s, *Indivisible* begins when its narrator, Henny, locks her husband in a closet so that she might better discuss things with God. On the verge of a

religious conversion, Henny attempts to make peace with the dead by telling their stories.

Fanny Howe is the author of more than twenty books of poetry and prose. Professor Emerita in Literature at the University of California, San Diego, she has mentored a generation of American poets, activists, and scholars working at the intersection of experimental and metaphysical forms of thinking. **Eugene Lim** is the author of four novels, including *Dear Cyborg*, and the founder of Ellipsis Press.

fiction

February | 5 3/8 x 8, 320 pp.

US \$16.95T/\$22.95 CAN paper

978-1-63590-155-9

Native Agents series

Distributed for Semiotext(e)

Diego Garcia

A Novel

Natasha Soobramanien and Luke Williams

Sad and funny and bitter and true, a novel about grief, discovering your own story, and trying to listen for those stories that are not yours to tell.

Edinburgh 2014. Independence for Scotland, codependence for us!

N. and L., two sad and stupid writers, one Scottish, one British-Mauritian, arrive in Edinburgh, trying to



work out if what killed L.'s brother Daniel is also what is killing them, however softly. Every day they wake up and they don't know what they're going to get. What they want is to get to the library. What they want is to write their books. But instead they spend their days bickering: over whether or not it is going to rain, over whether or not it matters that Bitcoin is tanking. Their nights are spent drinking pints,

smoking tubes, eating Mauritian food, and reading books, some of them Daniel's, sometimes aloud to one another.

Sad and funny and bitter and true, this collaborative autofiction, set in Edinburgh, London, and Brussels, is a novel about grief; about discovering your own story and about trying to listen for those stories that are not yours to tell; about books that can kill you, and books that can help you find a way to live. But in the end, this is both a novel about friendship, and a performance of it.

Natasha Soobramanien and **Luke Williams** are the authors of *Genie and Paul* and *The Echo Chamber*, respectively. They used to live in Edinburgh but now live in Brussels, across the park from one another, where they meet up every day for a walk.

fiction

May | 5 3/8 x 8, 240 pp.

US \$17.95T/\$23.95 CAN paper

978-1-63590-162-7

Native Agents series

Distributed for Semiotext(e)

The Cinema House and the World

The Cahiers du Cinema Years, 1962–1981

Serge Daney

translated by Christine Pichini

foreword by A. S. Hamrah

One of the greatest film critics of his generation on topics ranging from the auteur approach of the French New Wave to a more structural examination of film.

One of the greatest film critics of his generation, Serge Daney wrote for *Cahiers du Cinéma* before becoming a journalist for the daily newspaper *Libération*. The writings collected in this volume reflect Daney's evolving interests, from the auteur approach of the French New Wave to a more structural examination of film, psychoanalysis, and popular culture.

Openly gay throughout his lifetime, Daney rarely wrote explicitly about homosexuality but his writings reflect a queer sensibility that would influence future generations. In regular intellectual exchanges with Gilles Deleuze, Félix Guattari, and Roland Barthes, Daney wrote about cinema autobiographically, while lyrically analyzing the transition from modern cinema to post-modern media. A noted polymath, Daney also published books about tennis and Haiti's notorious Duvalier regime. His criticism is open and challenging, polyvocal and compulsively readable.

Serge Daney became the editor of *Cahiers du Cinéma* in 1974. In 1981, he left *Cahiers* and wrote about visual culture for *Libération*, turning his attention to television and coverage of the Gulf War. He collaborated with Claire Denis on a documentary film, *Jacques Rivette, le veilleur* (1990). He died of AIDS-related causes in 1991. **A. S. Hamrah** is a writer living in Brooklyn. He contributed a column on film to *n+1* from 2008 to 2019, and his essays and reviews have appeared in *Harper's*, *Bookforum*, *Cineaste*, and other publications. He is the author of *The Earth Dies Streaming: Film Writing, 2002–2018*.

performing arts

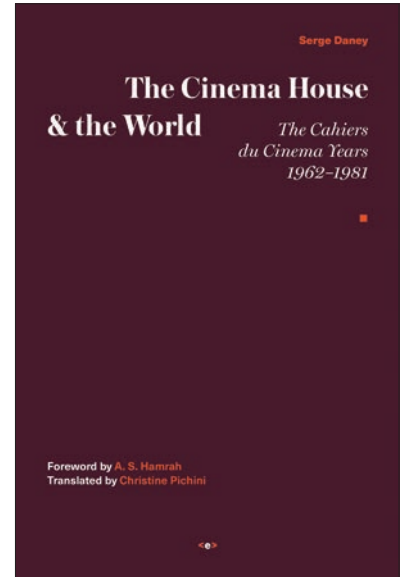
February | 6 x 9, 600 pp.

US \$34.95T/\$45.95 CAN cloth

978-1-63590-161-0

Foreign Agents series

Distributed for Semiotext(e)



American Magus Harry Smith

A Modern Alchemist

revised and expanded edition

edited by Paola Iglori

A privileged look into the life and artistic practice of the experimental filmmaker, music anthologist, and enigmatic polymath Harry Smith.

Best known during his lifetime as an experimental filmmaker and Folkways Records music anthologist, Harry Smith (1923–1991) was a spiritual outsider and one of



the most original, influential artists of the mid-century American avant-garde. An avid, inspired collector of old blues and hillbilly recordings during his youth, he became a fan of such bebop jazz as Charlie Parker and Dizzy Gillespie, and began making avant-garde film animations featuring patterns painted directly onto the negatives as visual accompaniments to jazz performances. Smith

crossed paths with nearly everyone central to the cultural avant-garde; he lived for art and gnosis with little thought for practical consequences. In 1991, he received a Lifetime Achievement Award at the Grammy Awards in New York.

Five years after Smith's death, the poet Paola Iglori began conducting intimate interviews with the filmmakers, musicians, poets, and artists who knew him best. The result, *American Magus Harry Smith*, offers a privileged look not only into Smith's life and artistic practice, but also into his era and the informal economy of influence that operated during that time. This expanded edition includes photos of Smith and many other color photos and images, as well as two important interviews with Smith from *Film Culture*.

Paola Iglori is the founder of Inandout Press, which produced books of art, culture, and poetry between 1990 and 1996, and is the author of *Entrails*, *Heads & Tails*. She was a close friend of Harry Smith's and has written and spoken extensively on his importance.

performing arts

May | 6 x 9, 328 pp. | 8 color illus., 80 b&w illus.

US \$19.95T/\$25.95 CAN paper

978-1-63590-164-1

Native Agents series

Distributed for Semiotext(e)

Clinic of Phantasms

Writings 1994–2002

Giovanni Intra

edited by Robert Leonard

Artist, gallerist, and writer Giovanni Intra's inventive approach to art writing provides a guide to the New Zealand and Los Angeles art scenes of his era.

Before his early death in 2002, Giovanni Intra enjoyed a rollercoaster ride through the art world. He was an



artist and gallerist—cofounding two legendary galleries, the artist-run space Teststrip in Auckland and China Art Objects Galleries in Los Angeles—as well as a writer. *Clinic of Phantasms* provides a guide to the New Zealand and Los Angeles art scenes of the day, including texts on key artists from

New Zealand (John Hurrell, Fiona Pardington, Denise Kum, Ava Seymour, Ann Shelton, Gavin Hipkins, Daniel Malone, and Slave Pianos) and Los Angeles (Charles Ray, Mike Kelley, Paul McCarthy, Dave Muller, Evan Holloway, John McCracken, and Julia Scher).

What makes Intra's work of enduring significance is his inventive approach to art writing, which was informed by his interest in punk, surrealism, and Daniel Paul Schreber, the famous case study in paranoia and hallucination. This volume features writing on Intra from Chris Kraus and Mark von Schlegell, Andrew Berardini, Roberta Smith, Tessa Laird, Will Bradley, Joel Mesler, and Robert Leonard.

Giovanni Intra (1968–2002) was a cofounder of the artist-run Teststrip Gallery in Auckland (1992–1997). He was a regular contributor to *Art and Text*. **Robert Leonard** is Chief Curator at City Gallery Wellington, New Zealand, and former director of the Institute of Modern Art, in Brisbane, Australia. He curated Simon Denny: Secret Power for the 2015 Venice Biennale. His City Gallery shows include Colin McCahon: On Going Out with the Tide (2017), John Stezaker: Lost World (2017), and Iconography of Revolt (2018).

art

March | 7 x 9, 224 pp.

US \$18.95T/\$24.95 CAN paper

978-1-63590-165-8

Distributed for Semiotext(e)

Published by Bouncy Castle and Semiotext(e).

Up Your Ass

Or From the Cradle to the Boat Or The Big Suck
Or Up from the Slime

Valerie Solanas

Valerie Solanas's legendary play explodes social and sexual mores and the hypocritical, patriarchal culture that produces them.

Valerie Solanas's legendary play, *Up Your Ass*—never published during her lifetime but full of her signature irreverence and wit, incisiveness, and camp—explodes social and sexual mores and the hypocritical, patriarchal culture that produces them. The play, the full title of which is *Up Your Ass Or From the Cradle to the Boat Or The Big Suck Or Up from the Slime*, marches out a cast of screwy stereotypes: the unknowing john, the frothy career girl, the boring male narcissist, two catty drag queens, the sex-depraved housewife, and a pair of racialized pickup artists, among others.

At the center is protagonist Bongi Perez—a thinly veiled Solanas—a sardonic, gender-bending hustler who escorts us through the back alleys of her street life. The fictionalized predecessor to Solanas's *SCUM Manifesto*, the play shares the same grand, subversive, implicative language, equally spitting and winking, embracing the margins, the scum, and selling a trick along the way.

Valerie Solanas (1936–1988) was a writer and artist. She completed *SCUM Manifesto* in 1967 and her play *Up Your Ass* in 1965; the latter was never published in her lifetime. As a result of her attempt to assassinate Andy Warhol in 1968, Solanas was involuntarily committed to psychiatric hospitalization. She was institutionalized a number of times in the years that followed, always living radically on the fringes of society.

performing arts | drama

February | 4 1/2 x 7, 96 pp.

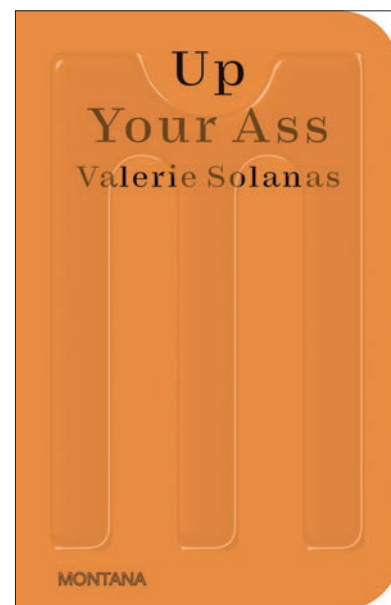
US \$15.00T/\$20.00 CAN paper

978-3-95679-605-0

Montana

Distributed for Sternberg Press

Not for sale in UK and Europe



Custody of the Eyes

Diamela Eltit

translated by Helen Lane and Ronald Christ

An unnamed woman—a mother—struggles to survive in the face of state repression, neighborhood surveillance, extreme weather, and familial control.

Alienation and dire frustration mount as an unnamed woman—a mother—struggles to survive in the face of state repression, neighborhood surveillance, extreme weather, and familial control. Told through one side of an epistolary exchange, *Custody of the Eyes* (*Los Vigilantes*) presents letters bookended by dense ramblings by the mother's son, who struggles to speak and write and spends most of his days in lockdown rearranging his "vessels," hysterically laughing, drooling, writhing, and withdrawing—a state that will ultimately consume his mother as well.

This is a story that explores how power is enacted on and through the body—the physical, the social, and the political. *Custody of the Eyes* reconfirms the essential, constitutive nature of language and expression in power and freedom.

Diamela Eltit is a Chilean writer and artist. She began producing works during the Pinochet dictatorship, staging actions as part of the artist collective CADA and publishing her first novels, *Lumpérica* and *El Cuarto Mundo*. She has received many literary prizes, including Chile's National Prize for Literature in 2018. She is a Distinguished Global Professor of Creative Writing in Spanish at New York University. **Helen Lane** (1917–2004) was a translator who worked primarily with French, Italian, Portuguese, and Spanish literature. **Ronald Christ** is the cofounder of Lumen Books and *SITE* magazine and Professor Emeritus of English at Rutgers University.

fiction

February | 4 1/2 x 7, 112 pp.

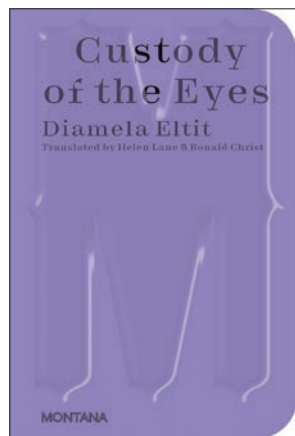
US \$15.00T/\$20.00 CAN paper

978-3-95679-606-7

Montana

Distributed for Sternberg Press

Not for sale in UK and Europe



Curating Capitalism

How Art Impacts Business, Management, and Economy

Pierre Guillet de Monthoux

How art and the artist inspire business: an examination of the origins of this relationship from Joseph Beuys and Andy Warhol.

Curation has evolved into much more than just creating interesting exhibitions, promoting artists, and selling

artwork. Art worlds have fused with business worlds and transformed capitalism from the inside out. "Curating capitalism" implies new ways of management that go far beyond the simple commercialization of art and artist. Today art and the artist inspire business.

Curating Capitalism traces this relationship back to German artist Joseph Beuys's declaration

that Art = Capital as well as to American artist Andy Warhol's vision of a capitalistic Business Art. The book draws from the insights of internationally renowned contemporary curators, artists, critics, and philosophers to articulate these ideas.

Pierre Guillet de Monthoux directs the Stockholm School of Economics Art Initiative where he is Professor at its Center for Arts, Business, and Culture. He has held professorships in general management at Stockholm University, Sweden, and in philosophy and management at Copenhagen Business School, Denmark. He is docent at Åbo Akademi, Finland, and currently teaches at Artem Nancy in France.

art

February | 5 x 7 1/2, 360 pp. | 20 illus.

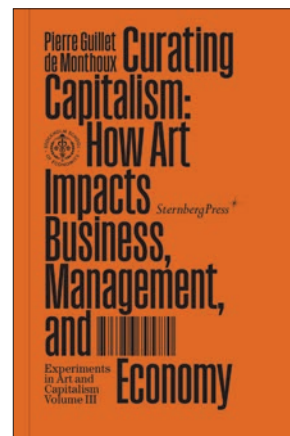
US \$19.95T/\$25.95 CAN paper

978-3-95679-577-0

Experiments in Art and Capitalism

Distributed for Sternberg Press

Not for sale in UK and Europe



Unannounced Voices of Change

Situated Curatorial and Institutional Practices

Zdenka Badovinac

Alternative forms of curatorial and institutional work suitable to our novel conditions, when the relationship between physical and online work must be revised.

Never before has the entire world been caught up nearly simultaneously in such a similar experience as in this era of the pandemic, which has only accelerated the spiraling crises of our time. The experiences that artists and curators now address, and even the very sense of experience itself, are more situated than local, extending beyond demarcated localities and individual communities, and resonating in precise yet expanded contexts of culture, space, and time. This book proposes alternative forms of curatorial and institutional work suitable

to our novel conditions, when the relationship between physical and online work must be revised in the name of a new sense of the situated, and as various economies of solidarity are already developing.

The predominant forms of curatorial production (exhibitions, conferences, publications, etc.) have long considered and even depended on geographical difference, on different localities and the fragility of social groups, yet they always translate these conditions into their own dominant language. What gets lost in translation is the body of the one being translated—the situation of each voice, each body. It is possible to retrieve these vulnerable bodies of people, artworks, and exhibitions, but only if curatorial work and institutions begin to develop this crucial sense of the situated that by necessity, by a new urgency of distance and closeness, must transform the idea of the local in the age of pandemic relations.

Zdenka Badovinac is a curator and writer. Since 1993 she has been the Director of the Moderna galerija in Ljubljana. She is the author of *Body and the East: From the 1960s to the Present* (MIT Press).

art

February | 4 3/8 x 7 1/2, 96 pp. | 6 illus.

US \$19.95T/\$25.95 CAN paper

978-3-95679-584-8

Thoughts on Curating

Distributed for Sternberg Press

Not for sale in UK and Europe

Between the Material and the Possible

Infrastructural Re-examination and Speculation in Art

edited by Bassam El Baroni

The revisioning of our infrastructural futures, local and global relationalities, and historical and political legacies.

From questions around space settlements to the possibility of repurposing blockchain infrastructures and financial instruments for redistributive purposes, and from the diagrammatic potential of infrastructural thinking in artistic practices to scenario planning and economic strategizing, this collection of essays brings together critical analysis from a broad group of contributors engaged in the revisioning of our infrastructural futures. Their interrogations span local and global relationalities, historical and political legacies, as well as future-oriented infrastructural hypotheses.

Forming a comprehensive picture of the multiple processes, regulations, institutions, technologies, networks, and operations that we have come to understand as the distributed infrastructural arena in which we act, yield, and plot is a perennial challenge. Over the past decade, a growing number of artists, theorists, curators, and researchers have moved from “institutional critique” to “infrastructural critique,” or toward “infrastructural speculation,” in which they explore the potential of creative infrastructure-related visions and scenarios.

Bassam El Baroni is Assistant Professor in Curating at the School of Arts, Design and Architecture, Aalto University, Finland. He is the author of various essays on artists, art, and curating, editor of *Fifteen Ways to Leave Badiou*, and coeditor, with Ida Soulard and Abinadi Meza, of *Manual for a Future Desert*.

art

February | 6 1/2 x 9, 256 pp. | 35 color illus.

US \$29.95T/\$39.95 CAN paper

978-3-95679-600-5

Distributed for Sternberg Press

Not for sale in UK and Europe

mitpress.mit.edu | Spring 2022

129

(How) do we (want to) work (together) (as (socially engaged) designers (students and neighbours)) in neoliberal times)?

Design Support / Öffentliche Gestaltungsberatung
2016–2021

Jesko Fezer and Studio Experimentelles Design

edited by Jesko Fezer and Claudia Banz

Studio Experimentelles Design's politically and socially committed approach through lectures, research, conversations, and project documentation.

With today's increasing income disparity, forced global division of labor, and neoliberal expansion of precariousness, a critical discussion about work is looming—even in the field of design. Since 2011, the Studio Experimentelles Design at the University of Fine Arts in Hamburg has experimented with local design support as a contemporary practice. In the summer of 2020, the Kunstgewerbemuseum Berlin Design Lab #6 hosted Studio Experimentelles Design's online research



festival. The studio invited friends, experts, and activists to discuss self-organizing academia, artistic collectivism, care work, and creative self-exploitation.

This compendium chronicles Studio Experimentelles Design's politically and socially committed approach through lectures, research, conversations, and project documentation from the online festival and five years of studio work.

Jesko Fezer is a designer. In cooperation with ifau he realizes architecture projects. He is cofounder of the bookstore Pro qm and part of the exhibition design studio Kooperative für Darstellungspolitik. He is Professor for Experimental Design at the HFBK Hamburg. **Claudia Banz** is an art and design scientist and since 2017 curator for design at the Kunstgewerbemuseum Berlin.

design

March | 5 3/8 x 8.25, 528 pp. | 200 color illus., 100 b&w illus.

US \$26.00T/\$35.00 CAN paper

978-3-95679-604-3

Distributed for Sternberg Press

Not for sale in UK and Europe

Oceans Rising

A Companion to Territorial Agency:
Oceans in Transformation

edited by **Daniela Zyman** and **TBA21**

Forty-one thoughtful contributions by artists, scholars, scientists, and ocean activists in response to the rapidly changing oceans.

The ocean is rising and with it sea level, water temperature, acidity, algal blooms, and storm surges. Also on the rise are the metrics of accelerated human activity. How are we to fathom the political, aesthetic, and epistemological rise of the oceans from centuries-long invisibilization and forgetting? What ideas and memories do the oceans hold in their depth and reanimate, when the earth's ecosystems suffer? Asking different questions

and using multiple registers of sensing expand the possibilities to engage with the oceanic at this precarious moment and rethink its relations to the terrestrial.

Oceans Rising is a companion reader to *Territorial Agency: Oceans in Transformation*, an independent oceanic research initiative commissioned by TBA21—Academy and operating out of Ocean Space in Venice. It offers forty-one thoughtful contributions by artists, scholars, scientists, and ocean activists in response to the rapidly changing oceans.

Daniela Zyman is the artistic director of Thyssen-Bornemisza Art Contemporary (TBA21). Her research into the ocean began when she worked with **TBA21—Academy**, ocean-archive.org, and Ocean Space in the former Church of San Lorenzo in Venice. Before joining TBA21 in 2003, she was chief curator of MAK—Austrian Museum of Applied Art in Vienna and MAK—Center for Art and Architecture, Los Angeles. TBA21—Academy is a contemporary art organization and cultural ecosystem fostering a deeper relationship to the ocean through the lens of art to inspire care and action.

art | environment

February | 9 x 11 1/2, 272 pp. | 40 color illus.

US \$32.95T/\$43.95 CAN paper

978-3-95679-609-8

Distributed for Sternberg Press

Not for sale in UK and Europe



Leslie Thornton

edited by Natalie Bell, Dan Kidner, and Milan Ther

The first monograph on the artist and filmmaker Leslie Thornton offers essential, foundational scholarship on her influential work.

Produced on the occasion of Leslie Thornton's major solo exhibition at the MIT List Visual Arts Center as well as a recent solo exhibition at Kunstverein Nurnberg, this richly illustrated volume is the first monograph on this important artist and filmmaker, offering essential, foundational scholarship on Thornton's influential work in film and video.



Thornton's early encounters with experimental, structuralist, and cinéma vérité traditions fueled her iconoclastic take on the moving image

and gave shape to her practice of weaving together her own footage and voice with archival film and audio. In part through her forceful and dynamic use of sound, Thornton exposes the limits of language and vision in her works, while acknowledging the ways that language and vision nevertheless remain central to scientific discourse and narrative in general. Her work consistently interrogates modes of representation and the violence of looking, pushing beyond critiques of the gaze to consider biases in perception, or the way voice and sound can undermine an otherwise dominant visual narrative.

Natalie Bell is curator at the MIT List Visual Arts Center. She was previously Associate Curator at the New Museum, New York, where she organized over a dozen solo exhibitions and cocurated several major group exhibitions. **Dan Kidner**, a curator and critic based in London, is a Senior Lecturer in the School of Art at Kingston University. **Milan Ther** is a curator and writer who since 2018 has served as Director of Kunstverein Nürnberg—Albrecht Dürer Gesellschaft, where he recently organized Leslie Thornton's exhibition *GROUND* (2020).

art

February | 6 1/2 x 9 1/2, 208 pp. | 150 color illus.

US \$35.00T/\$47.00 CAN paper

978-3-95679-598-5

Copublished with MIT List Visual Arts Center and Kunstverein Nürnberg

Distributed for Sternberg Press

Not for sale in UK and Europe

Amazonia

Anthology as Cosmology

edited by Kateryna Botanova and Quinn Latimer

Amazonia as a place, a subject, a point of view, and a socio-ecological world.

The writers, thinkers, elders, artists, and activists contributing to this book are all concerned with Amazonia as



a place, a subject, a point of view, and a socio-ecological world. A collection of voices, images, lands, waters, and spirits (both human and nonhuman), this book attempts to understand language in an extended sense—where writing, thinking, and art-making take the form of essays, poetry,

images, testimonies, and hybridized other.

The anthology comprises two distinct narrative sections, temporal structures, and points of view: the River and the Forest. The river is a kind of timeline, a sentence, a thread (of water) winding its way through the book, exploring indigenous thought and histories, issues of memory, erasure, rights and cultural practice, as well as the notion of ancestors and activism. The space of the forest, meanwhile, is represented as one of oral testimony and conversation, of voices speaking inside the present, in a kind of circular time in which past and future both impress upon and constitute the current uncertain moment. These voices include recorded conversations with elders, shamans, artists, and thinkers, as well as poetry, oral testimony, and artistic works from Amazonia that use the forest as both ground and cover.

Kateryna Botanova is a Basel-based cultural critic and curator from Kyiv, Ukraine. She is a cocurator of the multidisciplinary cultural festival *Culturescapes* (Basel, Switzerland). **Quinn Latimer** is a writer and editor. Her books include *Like a Woman* (Sternberg Press), *Sarah Lucas*, and *Film as a Form of Writing*.

art

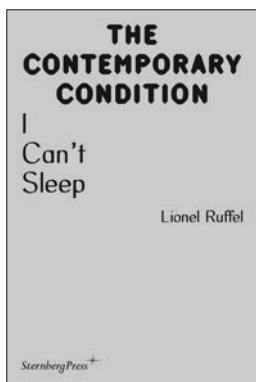
February | 8 1/4 x 10 1/4, 352 pp. | 136 color illus., 10 b&w illus.

US \$29.95T/\$39.95 CAN paper

978-3-95679-611-1

Distributed for Sternberg Press

Not for sale in UK and Europe



I Can't Sleep

Lionel Ruffel

An attempt to feel and investigate the quality of time, with references to Jonathan Crary, Paul B. Preciado, Charles Baudelaire, and Walter Benjamin.

Lionel Ruffel is a literary scholar, publisher, and author. Chair and

Professor of Comparative Literature at University of Paris 8, he is the founding director of the creative writing program there.

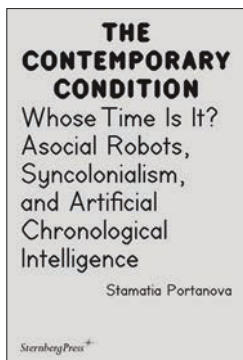
art | February | 4 3/4 x 7 1/2, 56 pp.

US \$12.00T/\$16.00 CAN paper
978-3-95679-603-6

The Contemporary Condition

Distributed for Sternberg Press

Not for sale in UK and Europe



Whose Time Is It?

Asocial Robots, Syncholonialism, and Artificial Chronological Intelligence

Stamatia Portanova

Following the “emerging life adventures and experiences” of Sophia, a robot animated by blockchain and AI, to present a study in temporal automation.

Stamatia Portanova is Research Fellow at the Department of Human and Social Sciences, Università degli Studi di Napoli “L’Orientale” (Naples) and the author of *Moving without a Body: Digital Philosophy and Choreographic Thoughts* (MIT Press).

technology | February | 4 3/4 x 7 1/2, 104 pp.

US \$12.00T/\$16.00 CAN paper
978-3-95679-608-1

The Contemporary Condition

Distributed for Sternberg Press

Not for sale in UK and Europe



Assuming Asymmetries

Conversations on Curating Public Art Projects of the 1980s and 1990s

edited by CuratorLab

Conversations from some of the most complex and yet underresearched European and US public art exhibitions

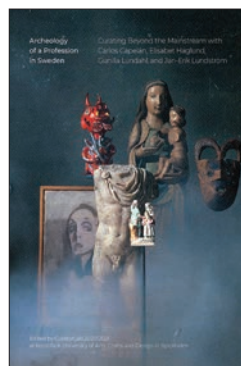
of the 1980s and 1990s.

art | February | 7 x 9, 304 pp. | 80 illus.

US \$25.00T/\$34.00 CAN paper
978-3-95679-612-8

Distributed for Sternberg Press

Not for sale in UK and Europe



Archeology of a Profession in Sweden

Curating Beyond the Mainstream with Carlos Capelán, Elisabet Haglund, Gunilla Lundahl, and Jan-Erik Lundström

edited by CuratorLab

Four case studies bring to the fore decolonial and other non-hegemonic approaches to the profession of curating in Sweden from the 1960s to the early 2000s.

CuratorLab is a curatorial course at Konstfack University of Arts, in Stockholm, which is expanding the ideas of curating and the curatorial beyond the exhibition format, exploring radical approaches to engagement, debating pertinent issues of our times, having collective fun, and practicing horizontal learning.

art | February | 7 x 9, 200 pp. | 40 illus.

US \$25.00T/\$34.00 CAN paper
978-3-95679-613-5

Distributed for Sternberg Press

Not for sale in UK and Europe

Death Lines

Walking London Through Horror Cinema

Lauren Jane Barnett

The first walking guide to London's role in the evolution of horror cinema, inspired by the city's dark histories and labyrinthine architectures.

Death Lines is the first walking guide to London's role in the evolution of horror cinema, inspired by the city's dark histories, labyrinthine architectures, atmospheric streetscapes, and uncanny denizens. Its eight walks lead you on a series of richly researched yet undeniably chilling tours through Chelsea, Notting Hill, Westminster, Bloomsbury, Covent Garden, and the East End, along the haunted banks of the river Thames, and down into the depths of the London Underground railway.

Each tour weaves together London's stories and takes the reader to magnificent, eerie, and sometimes disconcertingly ordinary corners of the city, unearthing the literature, legends, and history behind classics like *Peeping Tom* and *An American Werewolf in London*, and lesser-known works such as the mind-control melodrama *The Sorcerers*; *Gorgo*, Britain's answer to *Godzilla*; tube terror *Death Line*; and Bela Lugosi's mesmeric vehicle *The Dark Eyes of London*. Tinged with humor, social critique, and more than a few scares, *Death Lines* delights in revealing the hidden and often surprising relationship between the city and the dark cinematic visions it has evoked. Whether read on the streets or from the comfort of the grave, *Death Lines* is a treat for all cinephiles, horror fans, and lovers of London lore.

Lauren Jane Barnett is a writer, lecturer, and London horror film walking guide.

travel | performing arts

April | 5 x 7 1/2 240 pp. | 30 illus.

US \$19.95T/\$25.95 CAN paper

978-1-913689-38-4

Distributed for Strange Attractor Press





The Neon Hieroglyph

Tai Shani

introduction by Amy Hale

afterword by Caspar Heinemann

A series of painterly and poetic considerations on a feminized history of the rye fungus Ergot, the chemical basis of LSD, from the author of *Our Fatal Magic*.

From the cellular to the galactic, via Paleolithic cave markings to the trace impressions left by drone photography on our mind's eye, incorporating dancing plagues, communist psychedelic witches, hyper-sexual fungi, chthonic descents, and skyward ascents, *The Neon Hieroglyph* weaves together a series of painterly and poetic considerations on a feminized history of the rye fungus Ergot, the chemical basis of LSD.

The Neon Hieroglyph constructs a house of lyrical reflections for our ghosts to inhabit, a place where the gothic and the hallucinatory collide, where gothic affect and fractal dread form a mausoleum for psychedelic specters. And also the Sun! The Sun is a ghost that haunts the night! Framed with new essays by artist and writer Caspar Heinemann and anthropologist Amy Hale, Tai Shani's *The Neon Hieroglyph* continues a journey into the post-patriarchal fictions that animated her first collection, *Our Fatal Magic*.

Tai Shani is a Tutor in Contemporary Art Practice at the Royal College of Art. Shani's multidisciplinary practice, comprising performance, film, photography, and installation, revolves around experimental narrative texts. **Amy Hale** is an anthropologist who specializes in contemporary occult and Pagan history, religions, and culture in the United States and the United Kingdom. **Caspar Heinemann** is a poet, artist, and academia-adjacent independent researcher based in London and Berlin. His research interests include critical mysticism, gay biosemiotics, illegitimate communisms, and professional irreverence.

art

March | 6 x 8 1/2, 72 pp. | 10 color illus.

US \$22.95T/\$29.95 CAN paper

978-1-913689-49-0

Distributed for Strange Attractor Press

Dreams and How to Guide Them

The Legendary Dream Control Manual

Marquis d'Hervey de Saint-Denys

introduction by Phil Baker

The first unabridged English translation of a classic work on dreams by an author regarded as the father of lucid dreaming.

First published anonymously in 1867, *Dreams and How to Guide Them* is the lost classic of lucid dreaming—that is, the art of becoming aware that one is dreaming and then continuing to dream, whether to fly, have erotic encounters, or just explore the dream world further. It has long been a rare and legendary work. Freud knew of it, but never managed to find a copy, and surrealist André Breton begins his own book *The Communicating Vessels* by discussing it. This is the first complete English translation—there was a heavily abridged edition in



1982, much-loved and also rare—and it is now published to celebrate the 200th anniversary of the birth of Hervey de Saint-Denys.

This new edition is edited and introduced by Phil Baker, who traces the author's life and connects his work with Tibetan Buddhist dream practices and surrealism, as well as to more recent research in lucid dreaming.

The Marquis d'Hervey de Saint-Denys (1822–1892) was a French sinologist also known for his research on dreams. He is today regarded as the father of lucid dreaming. **Phil Baker** is a writer based in London. His books include *The Devil Is a Gentleman: The Life and Times of Dennis Wheatley*, and *Austin Osman Spare: The Life and Legend of London's Lost Artist* (Strange Attractor), called by Alan Moore "little short of marvelous."

body, mind, and spirit

May | 6 x 8 1/2, 352 pp.

1 color illus., 20 b&w illus.

US \$25.00T/\$34.00 CAN paper

978-1-913689-40-7

Distributed for Strange Attractor Press

Postcards for Mia

Michael Taussig

A picture book to be shared and savored by both children and adults: a journey into a wondrous world colored by the stories we might choose to tell about it.



A full moon after a wasp attack, poppies from a train, panning for gold in the River Cesecito, a bountiful pumpkin harvest

Postcards for

Mia is a joyful collection of hand-drawn and -painted postcards sent by anthropologist Michael Taussig to his granddaughter, Mia. From airports in New York to cemeteries in Colombia, confrontations with wild boars to conversations with well-dressed koalas, *Postcards for Mia* is a picture book to be shared and savored by both children and adults, a journey into a wondrous world colored by the stories we might choose to tell about it.

Anthropologist Michael Taussig is renowned for his visionary explorations of color, magic, and myth, founded upon over forty years' experience with communities in Colombia and Venezuela as well as research visits to Palestine, Kurdish Syria, Kabul, Alice Springs, Sydney, Venice, and Paris. This, his first fully illustrated picture book, provides a remarkably personal insight into Taussig's unique way of seeing and responding to the world. Drawing observation and reverie into vibrant and humorous acts of vivid storytelling, this delightful scrapbook documents the warmth and excitement of an inter-generational exchange, inspired by the simple pleasure of recounting the excitement of one's travels.

Michael Taussig is a writer and an anthropologist. He is the author of several books, including *The Magic of the State*, *I Swear I Saw This*, and most recently, *Mastery of Non-Mastery in the Age of Meltdown*.

art

May | 8 1/2 x 6, 72 pp. | 40 color illus.

US \$25.00T/\$34.00 CAN cloth

978-1-913689-42-1

Distributed for Strange Attractor Press

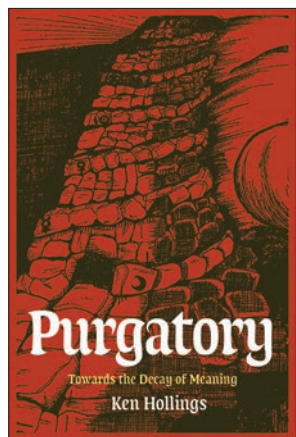
Purgatory

The Trash Project: Towards The Decay Of Meaning

Ken Hollings

A series of essays modeled on the *Purgatorio* of Dante Alighieri—personal reflections, historical incidents, and unexpected mythological correspondences.

In this sequel to 2020's *Inferno*, Hollings shifts his attention away from America in the Age of Pop to take a close look



at European decadence and decay at the end of the nineteenth century. *Purgatory* follows the twin fates of Hallward and Hancock as they are drawn, like so many artists before them, towards the city of Paris. It was here that exiled Swedish playwright August Strindberg struggled to turn iron and carbon into gold, while the aesthete Sâr Péladan staged his sumptuous Salons de la Rose+Croix. Over a series

of thirty-three essays directly modeled on the *Purgatorio* of Dante Alighieri, personal reflections, historical incidents, and unexpected mythological correspondences are combined to uncover a restless underground labyrinth of alchemists, poets, painters, and philosophers. Together, their combined influence would shape not only the events of May '68 but the emergence of a uniquely European form of Trash cinema devoted exclusively to beauty, sex, and despair.

To celebrate the 700th anniversary of Dante's death, Ken Hollings offers the reader a radical retelling of the middle part of the *Divine Comedy*. Hell may be a tough act to follow—but, as Volume Two of the Trash Project reveals, *Purgatory* can be just as weird and dangerous.

Ken Hollings is a writer, broadcaster, and cultural theorist based in London and the author of *Welcome to Mars* and *The Bright Labyrinth* (both published by Strange Attractor Press). He teaches at the Royal College of Art.

art

April | 5 3/4 x 8, 400 pp. | 20 illus.

US \$19.95T/\$25.95 CAN paper

978-1-913689-23-0

Distributed for Strange Attractor Press

Everything Keeps Dissolving

Conversations with Coil

edited by Nick Soulsby

Core members of the legendary British experimental band Coil tell its story in the present tense, as events unfold across its twenty-year history.

Between 1983 and 2004 the legendary British experimental band Coil established itself as a shape-shifting



doyen of esoteric music whose influence has grown spectacularly in the years since its untimely end. With music that could be dark, queer, and difficult, but often retained a warped pop sensibility, Coil's albums were multifaceted repositories of esoteric knowledge, lysergic wisdom and acerbic humor. In *Everything Keeps Dissolving*, core members John Balance and Peter Christopherson

tell Coil's story in the present tense, and from their personal perspectives, as events unfold across the band's twenty-year history.

Accompanied by their various collaborators, they describe the fertile eruption of ideas, inspirations, and stray tangents that informed their lyrical and musical visions—as well as those dead paths and castoff concepts that didn't take root. Not only a worm's eye view of Coil, these interviews provide insight into the late twentieth century's evolving British cultural underground as channeled through two of its most astutely mercurial minds.

Nick Soulsby is the author of *Swans: Sacrifice and Transcendence*, *Thurston Moore: We Sing a New Language*, and *Cobain On Cobain: Interviews and Encounters*.

performing arts

April | 6 x 8 1/2, 240 pp. | 20 illus.

US \$22.95T/\$29.95 CAN paper

978-1-913689-43-8

Distributed for Strange Attractor Press

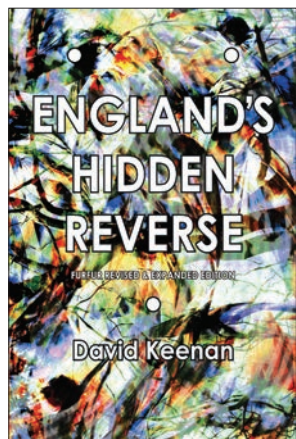
England's Hidden Reverse

A Secret History of the Esoteric Underground
revised and expanded edition

David Keenan

An expanded edition of the classic exploration of the English esoteric musical underground—with the first biographies of Coil, Current 93, and Nurse With Wound.

This newly expanded edition of *England's Hidden Reverse*, the classic exploration of the English esoteric musical



underground that includes the first, and only, biographies of Coil, Current 93, and Nurse With Wound, is based on exclusive interviews and unprecedented access to all three bands' personal archives. Together, these genre-defying bands and their circles represent the English underground in all its cultural, artistic, and sexual variety. Over four decades, the three intertwined groups have maintained a symbiotic,

yet uneasy, relationship with the mainstream of popular culture, even as their music, beliefs, and practices have repelled them from it. Theirs was a clandestine scene whose work accents the many occulted peculiarities of Englishness that flow through generations of outsiders, channeling personalities as diverse as Aleister Crowley, Arthur Machen, Joe Orton, Shirley Collins, Björk, and Marc Almond. The story of this Hidden Reverse has, necessarily, remained a secret. Until now.

This new volume contains almost 100 pages of extra material culled from *Furfur*, a collection of interviews with musicians and artists whose careers intersected with the bands', initially published alongside *Strange Attractor's* first limited edition of the book.

David Keenan is the author of the novels *This is Memorial Device*, *For The Good Times*, and *Monument Maker*.

performing arts

April | 6 1/2 x 8 1/2, 456 pp. | 113 color illus., 113 b&w illus.

US \$33.95T/\$44.95 CAN paper

978-1-913689-45-2

Distributed for Strange Attractor Press

Bone Music

Soviet X-Ray Audio

edited by Stephen Coates

Stories of the secret underground Cold War-era Soviet music subculture that distributed forbidden music on used hospital x-rays.

During the Cold War era, the songs that Soviet citizens could listen to were ruthlessly controlled by the state. But



a secret underground subculture of music lovers and bootleggers defied the censors, building recording machines and making their own records of forbidden jazz, rock'n'roll, and Russian music, cut onto used hospital x-ray film. *Bone*

Music is the follow up the acclaimed *X-Ray Audio: The Strange History of Soviet Music on the Bone*, delving deeper into a forgotten era when being a music fan could mean a lengthy prison sentence, or worse.

Who made these records? Why did they do it and how was it even possible? Foregrounding interviews and oral testimonies gathered over five years, *Bone Music* presents the stories of the original bone bootleggers, their customers, musicians, record collectors, and commentators, evoking a spirited resistance to a repressive culture of prohibition and punishment. It reveals that although Western jazz and rock'n'roll were important to the Stilyagi youth culture, the true rebel music was that of forbidden Russian émigrés, gypsy romances, and criminal tunes: the soul songs of a society brutally cut off from its culture.

Richly illustrated with dozens of new images of Soviet x-ray discs and sound letters.

Stephen Coates is the editor of *X-Ray Audio* (Strange Attractor Press), a music producer, and director of the arts company Antique Beat.

performing arts

February | 9 1/4 x 8 3/4, 208 pp. | 85 color illus., 22 b&w illus.

US \$33.95T/\$44.95 CAN paper

978-1-913689-47-6

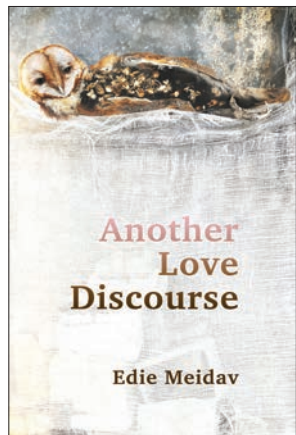
Distributed for Strange Attractor Press

Another Love Discourse

Eddie Meidav

A lyric novel about the play of grief, empathy, new and old love, and the quest to overcome blindness in human relations.

Caught in the cross-currents of a fraught divorce and a new love, the death of her mother, and a global pandemic, a writer plunges into an obsession with the work of 1960s French philosopher Roland Barthes. Her struggles to make sense of his work and life—and of what can happen to a woman's settled life in a single harrowing year—result in an engrossing, funny, earthy, and innovative lyric work. The quest for authenticity in motherhood, sexuality, and tenancy on the earth and in the home, as well as the unusual lyric form, make the novel unified in spirit yet transdisciplinary in approach.



Eddie Meidav, called an “American original,” is the author of the novels *Crawl Space*, *The Far Field* and *Lola, California*. Her previous work has been recognized by the Bard Fiction Prize and the Kafka Prize and has received support from the Fulbright Program, the Howard Foundation, the Lannan Foundation, and the Whiting Foundation. A senior editor at the journal *Conjunctions*, she teaches in the MFA program at the University of Massachusetts Amherst.

“An alchemist of empathy, of nuanced observation and unexpected truths, Eddie Meidav is a writer whose every magical story probes human experience from triumphs to tragedies and all the terrain between.”

—Bradford Morrow

biography | memoir

April | 5 1/2 x 8 1/4, 184 pp. | 15 illus.

US \$23.95T/\$31.95 CAN paper

978-1-949597-20-2

Distributed for Terra Nova Press

Overtone Singing

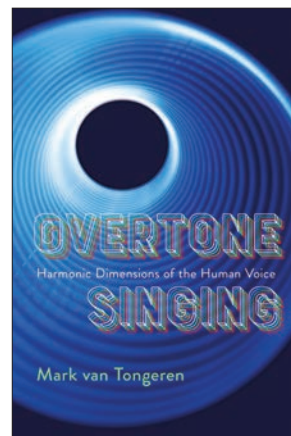
Harmonic Dimensions of the Human Voice

Mark van Tongeren

foreword by Trần Quang Hai

An indispensable guide to a deeper understanding of the nature of the human voice and its harmonic possibilities from East to West.

Overtone Singing is the most comprehensive book ever written on the hidden harmonies of the human voice.



Ethnomusicologist and vocalist Mark van Tongeren offers fascinating insights into the timeless and universal aspects of sound and vibration. Grounded in the author's decade-long study of Asian music, the book draws upon field work, interviews with Eastern and Western musicians, and copious scholarship to present a multidisciplinary vision of sound that runs from global music to the

science of acoustics and perception, onward to the philosophical and spiritual dimensions of music. Written in a nontechnical style, this generously illustrated book is an indispensable guide for musicians, listeners, and performers seeking a deeper understanding of the nature of the human voice and its harmonic possibilities from East to West.

Mark van Tongeren is best known for his work as an overtone/throat singer. He was a performer with the Amsterdam-based experimental group Silo Theatre and the seven-piece improvisation band Oorbeek. His recent work includes the performance *Incognito Ergo Sum* with Superstringtrio, and the Overtone Singing Marathon based upon his cycle of compositions “Zeropoint,” performed in collaboration with composer Paul Oomen. He lives in Taiwan.

“Has interesting things to teach to everyone who is intrigued by the mysteries of sound.”

—Trần Quang Hai

performing arts

May | 6 x 9, 352 pp. | 30 b&w illus.

US \$27.95T/\$36.95 CAN paper

978-1-949597-22-6

Distributed for Terra Nova Press

Revolutionary Demonology

Gruppo di Nun

foreword by Amy Ireland

An anthology of occult resistance: unpredictable and fascinating, at times hallucinatory, sullyng politics, philosophy, cybertheory, religion, and music.

The End Times are here. The Digital Middle Ages approaches, the plague reaps its deadly harvest, climate apocalypse is around the corner, and fanaticism, fascism, and madness are rampant. The idea that we might gain the upper hand over the dark abyss into which the planet is tumbling is a form of magical thinking, laboring under the delusion that we can subdue eternity with relentless bloodlust, brutish exploitation, abuse of power, and violence. *Revolutionary Demonology* responds to this ritual of control, typical of what esoteric tradition calls the “Dogma of the Right Hand,” by reactivating the occult forces of a Left Hand Path that strives for the entropic disintegration of all creation, so as to make peace with the darkness and nourish the Great Beast that will finally break the seals of Cosmic Love.

Unpredictable and fascinating, genuinely bizarre, at times hallucinatory, sullyng politics, philosophy, cybertheory, religion, and music alike with its fevered touch, this “anthology of occult resistance” collects together the communiqués of an arcane group who are already being hailed as the first morbid blossoming of “Italian Weird Theory”: a rogue contingent of theorists, witches, and sorcerers who heretically remix gothic accelerationism with satanic occultism and insurrectional necromancy.

Gruppo di Nun is a collective of psycho-activists based in Italy, dedicated to organizing forms of covert resistance to heteropatriarchal dogma. **Amy Ireland** is a theorist and experimental writer based in Melbourne, Australia.

cultural studies | occult

February | 5 3/4 x 8 1/4, 320 pp. | 10 illus.

US \$24.95T/\$33.95 CAN paper

978-1-913029-90-6

Distributed for Urbanomic



Parallel Minds

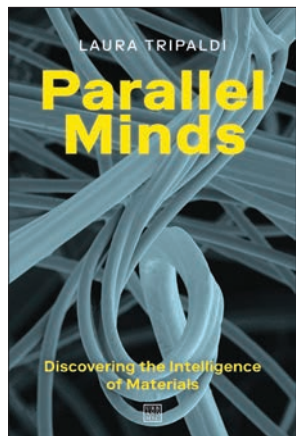
Discovering the Intelligence of Materials

Laura Tripaldi

preface by Matteo de Giuli

Insights into the intelligence throughout the natural and technical environment, in the fabric of our devices and dwellings, in our clothes, and under our skin.

Is there a way to understand the materials that surround us not as passive objects, but as other intelligences



interacting with our own?

In *Parallel Minds*, expert in materials science and nanotechnology Laura Tripaldi delivers not only detailed insights into the properties and emergent behaviors of matter as revealed by state-of-the-art chemistry, synthetic biology, and nanotech, but also a rich philosophical reflection that crosses the frontier between nature and culture, where the most cutting-edge

scientific syntheses resonate with ancient myth. The result is a technomaterial bestiary full of unexpected encounters with “strange minds”—from cobwebs to kevlar and carbon fibre, from centaurs to amoebas to arachnids, from polycephalic slime to resonating plasmons, from viruses to golems.

Parallel Minds reveals the intelligence at large throughout the natural and technical environment, in the fabric of our devices and dwellings, in our clothes, and even under our skin. Full of lateral ideas and unexpected images, Tripaldi’s book imbues the study and synthesis of materials with a new urgency. For not only do the materials that surround us participate actively in the construction of the world in which we live, but harnessing their ability to interact intelligently with their environment could be the key to the future of our species.

Laura Tripaldi is a PhD student in Materials Science and Nanotechnology at Università degli Studi di Milano-Bicocca. **Matteo De Giuli** is a writer for TV and radio, and Senior Editor of the online journal *// Tascabile*.

philosophy | science

February | 5 1/4 x 7 1/2, 160 pp. | 5 illus.

US \$18.95T/\$24.95 CAN paper

978-1-913029-93-7

Distributed for Urbanomic

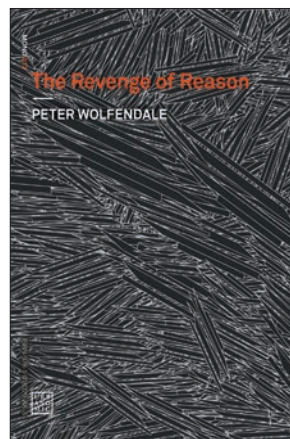
The Revenge of Reason

Peter Wolfendale

foreword by Ray Brassier and Reza Negarestani

Neorationalism as a distinctive philosophical trajectory, exploring the outermost possibilities of Prometheanism, Inhumanism, and Enlightenment.

What is the fate of Reason in the twenty-first century? Today more than ever, in the face of disinformation,



memetic plagues, and neuroactive media, if we are to resist not just the continual solicitation of our cognitive reflexes, but also the unearned authority of endless everyman rationalists and self-appointed secular priests of rationality, then we have no choice but to mobilize Reason to continually dissect the responsibilities they shirk, and to embrace the future demands of thought. Peter Wolfendale has long been

dedicated to this philosophical task, and *The Revenge of Reason* lays out his vision for Neorationalism as a distinctive philosophical trajectory, exploring the outermost possibilities of Prometheanism, Inhumanism, and Enlightenment.

This volume collects interviews and writings on various philosophical figures and topics, addressing the deepest questions of Physis, Logos, and Ethos—all with exemplary clarity and pedagogical generosity. Against those who would chain the fate of humanity to its animal nature, Wolfendale’s work makes the case for unbinding our rationality from every petty naturalism and every fixed image of thought, heralding an inhuman destiny unleashed by the revenge of Reason.

Peter Wolfendale, an independent philosopher living in the North East of England, is the author of *Object-Oriented Philosophy: The Noumenon of New Clothes* (Urbanomic). **Ray Brassier** is a British philosopher and the author of *Nihil Unbound: Enlightenment and Extinction*. **Reza Negarestani** is a philosopher and the author, most recently, of *Intelligence and Spirit* (Urbanomic / Sequence Press).

philosophy

March | 4 1/2 x 7, 308 pp.

US \$24.95T/\$33.95 CAN paper

978-1-913029-87-6

Mono

Distributed for Urbanomic

Boîte HO

Hélio Oiticica (Undoing the Image 5)

Éric Alliez

with Jean-Claude Bonne

How Hélio Oiticica, one of the leading artists of Neo-Concretism, presaged the unique trajectory of Brazilian contemporary art with his intensive color-architectures.

At the turn of the 1950s–1960s, one of the leading artists of Neo-Concretism, Hélio Oiticica, presaged the unique trajectory of Brazilian contemporary art with his intensive color-architectures. In the wake of this *vivência* of “time-color,” which subordinates the aesthetic to the sensorimotor powers of color, Oiticica’s transcategorical, transmedia works critically and clinically undermine physical and social architecture, while semiotically subverting the forms of domination exerted by the image.

In this culmination of their reassessment of the relation among art, philosophy, and the contemporary, Éric Alliez and Jean-Claude Bonne show how these works are exemplary not only of a truly diagrammatic thought and practice, but also of the South’s resistance against the coldly indifferent globalism endemic to the pacified institutions of contemporary art. Oiticica’s *tropicalization* of the commonplaces of sixties art signals the latent potential of a marginal dissidence from both the aesthetic form of art and the conceptual form of anti-art.

Éric Alliez is a philosopher and Professor at Université Paris 8 and at the Centre for Research in Modern European Philosophy at Kingston University, London. He is author of *Capital Times*, *The Signature of the World: Or, What is Deleuze and Guattari’s Philosophy?*, and other books.

Jean-Claude Bonne is an art historian and Director of Studies at the École des Hautes Études en Sciences Sociales, Paris. He is author of *L’Art roman de face et de profil: Le tympan de Conques, Le Sacre royal à l’époque de Saint-Louis* (with Jacques Le Goff), and, with Éric Alliez, *La Pensée-Matisse*.

art

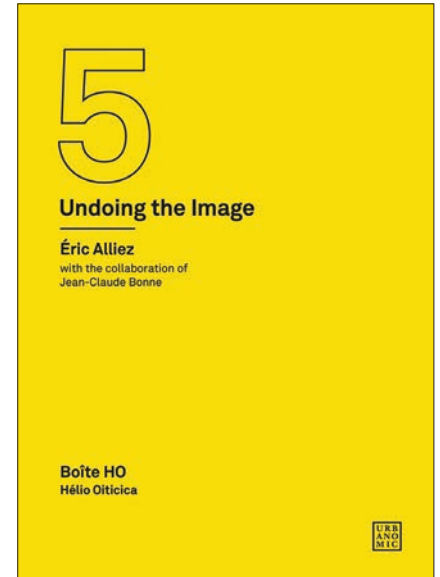
February | 7 x 9 3/4, 72 pp. | 10 color illus., 13 b&w illus.

US \$24.95T/\$33.95 CAN paper

978-1-913029-98-2

Art Editions

Distributed for Urbanomic



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Urbanomic / Art Editions

arts & humanities



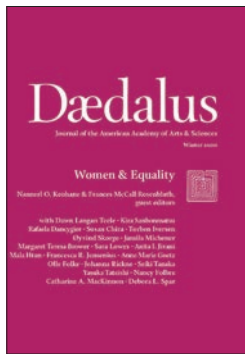
ARTMargins

Sven Spieker, Karen Benezra, Octavian Eșanu, Pedro Erber, Angela Harutyunyan, and Saloni Mathur, editors

ARTMargins publishes scholarly articles and essays about contemporary art, media, architecture, and critical theory. The journal is devoted to art practices and visual culture in the emerging global margins, from North Africa and the Middle East to the Americas, Eastern and Western Europe, Asia and Australasia.

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Dædalus

Phyllis S. Bendell, managing editor

Drawing on the nation's most prominent thinkers in the arts, sciences, humanities, and social sciences, as well as the professions and public life, *Dædalus, Journal of the American Academy of Arts and Sciences*, explores the frontiers of knowledge and issues of public importance.

Quarterly, ISSN 0011-5266 | Winter/
 Spring/Summer/Fall

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PAJ: A Journal of Performance and Art

Bonnie Marranca, editor

PAJ explores innovative work in theatre, performance art, dance, video, writing, technology, sound, and music, bringing together all live arts in thoughtful cultural dialogue.

Triannual, ISSN 1520-281X

January/May/September
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arts & humanities



October

Rosalind Krauss, Annette Michelson (1922–2018), George Baker, Yve-Alain Bois, Benjamin H. D. Buchloh, Leah Dickerman, Devin Fore, Hal Foster, Denis Hollier, David Joselit, Carrie Lambert-Beatty, Mignon Nixon, Malcolm Turvey, Huey Copeland, and Pamela M. Lee, editors

At the forefront of art criticism and theory,

October focuses critical attention on the contemporary arts—film, painting, music, media, photography, performance, sculpture, and literature—and their various contexts of interpretation.

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African Arts

edited by the African Arts Consortium: UCLA, University of Florida, and University of North Carolina at Chapel Hill

African Arts presents original research and critical discourse on traditional, contemporary, and popular African arts and expressive cultures. Since 1967, the journal has reflected the dynamism and diversity of several fields of humanistic study, publishing richly illustrated articles in full color, incorporating the most current theory, practice, and

intercultural dialogue.

Quarterly, ISSN 0001-9933 | Spring/Summer/Autumn/Winter

88-100 pp. per issue | 8 1/2 x 11, illustrated
<https://direct.mit.edu/afar>

Published by the James S. Coleman African Studies Center, UCLA, and distributed by the MIT Press

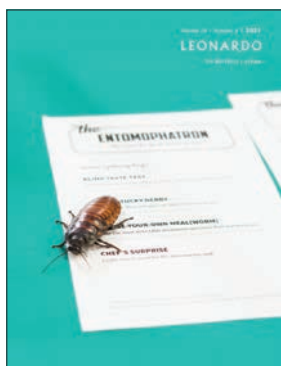


Design Issues

Bruce Brown, Richard Buchanan, Carl DiSalvo, Dennis P. Doordan, Kipum Lee, and Ramia Mazé, editors

The first American academic journal to examine design history, theory, and criticism, *Design Issues* provokes inquiry into the cultural and intellectual issues surrounding design. Regular features include theoretical and critical articles by professional and scholarly contributors, extensive book and exhibition reviews, and visual sequences.

Quarterly, ISSN 0747-9360
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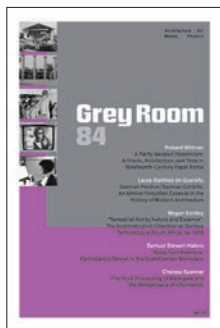
Leonardo

Nicholas Cronbach, senior editor

Leonardo is the leading international peer-reviewed journal on the use of contemporary science and technology in the arts and music and, increasingly, the application and influence of the arts and humanities on science and technology.

Five issues per year, ISSN 0024-094X
February/April/June/August/October
112 pp. per issue | 8 1/2 x 11, illustrated

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Grey Room

Zeynep Çelik Alexander, Lucia Allais, Eric C.H. de Bruyn, Noam M. Elcott, Byron Hamann, John Harwood, and Matthew C. Hunter, editors

Grey Room brings together scholarly and theoretical articles from the fields of architecture, art, media, and politics to forge a cross-disciplinary discourse uniquely relevant to contemporary concerns. Publishing some of the most interesting and original work within these disciplines, *Grey Room* has positioned itself at the forefront of the most current aesthetic and

critical debates.

Quarterly, ISSN 1526-3819 | Winter/Spring/Summer/Fall
128 pp. per issue | 6 3/4 x 9 5/8, illustrated
<https://direct.mit.edu/grey>



Neurobiology of Language

Steven L. Small and Kate E. Watkins, editors-in-chief

Neurobiology of Language provides a new, high-integrity venue for articles across a range

of disciplines addressing the neurobiological basis of human speech and language. Offering open access publishing, rigorous double-blind peer review, and quick turnaround times for authors, the journal aims to facilitate the replicability of experimental findings through modern open science requirements such as sharing of raw data and detailed methods.

Open Access | Quarterly | Founded: 2018 | E-ISSN 2641-4368
<https://direct.mit.edu/nol>



Data Intelligence

A key resource for industry leaders and researchers engaged in sharing and reusing data, metadata, knowledge bases, and data visualization tools.

Open Access | Quarterly |
Founded: 2018
E-ISSN 2641-435X
<https://direct.mit.edu/dint>



Quantitative Science Studies

Ludo Waltman, editor-in-chief

Quantitative Science Studies is the official open access journal of the International Society for Scientometrics and Informetrics (ISSI). It will publish theoretical and empirical research on

science and the scientific workforce. Emphasis will be placed on studies that provide insight into the system of science, general laws of scientific work, scholarly communication, science indicators, science policy, and the scientific workforce.

Open Access | Quarterly | E-ISSN 2641-3337
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Transactions of the Association for Computational Linguistics

TRANSACTIONS OF
THE ASSOCIATION FOR
COMPUTATIONAL LINGUISTICS

Ani Nenkova and Brian Roark, editors-in-chief

Disseminating work of vital

relevance to academic and industry computational linguists, natural language processing experts, artificial intelligence and machine learning investigators, cognitive scientists, speech specialists, as well as linguists and philosophers.

Open Access | Annual | Founded: 2013 | E-ISSN 2307-387X
<https://direct.mit.edu/tacl>

Open Mind: Discoveries in Cognitive Science

Edward Gibson, editor

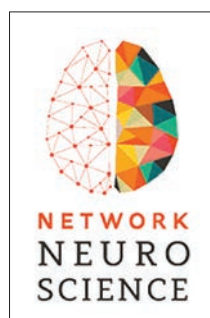
Open Mind provides a new venue for the highest quality, most innovative work in cognitive science, offering affordable open access publishing,



concise and accessible articles, and quick turnaround times for authors. The journal covers the broad array of content areas within cognitive science using approaches

from cognitive psychology, computer science and mathematical psychology, cognitive neuroscience and neuropsychology, comparative psychology and behavioral anthropology, decision sciences, and theoretical and experimental linguistics.

Open Access | Annual volume with articles published upon acceptance
680 pp. per issue | 8 1/2 x 11 | Founded: 2017 | E-ISSN: 2470-2986
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Network Neuroscience

Olaf Sporns, editor

Network Neuroscience features innovative scientific work that significantly advances our understanding of network organization and function in the brain across all scales, from molecules and neurons to circuits and systems.

Quarterly | E-ISSN 2472-1751
Winter/Spring/Summer/Fall
330 pp. per issue | 8 1/2 x 11
Founded: 2017
<https://direct.mit.edu/netn>

Global Environmental Politics

Steven Bernstein, Matthew Hoffmann, and Erika Weinthal, editors



GEP examines the relationships between global political forces and environmental change, with particular attention given to the implications of local-global interactions for environmental management as well as to the implications of environmental change and environmental politics for world politics.

Quarterly, ISSN 1526-3800 | February/May/August/November | 164 pp. per issue | 6 x 9
<https://direct.mit.edu/glep>

International Security

Steven E. Miller, editor-in-chief

Sebastian Rosato, executive editor (pro tem)

Amanda Pearson, managing editor

Owen R. Coté Jr., editor



International Security, the #1 journal in International Relations based on 2019 impact factor, publishes lucid, well-documented essays on the full range of contemporary security issues, including the growing importance of environmental, demographic, and humanitarian issues,

transnational networks and emerging technologies.

Quarterly, ISSN 0162-2889 | Summer/Fall/Winter/Spring | 208 pp. per issue | 6 3/4 x 10
<https://direct.mit.edu/isec>
Published by the MIT Press for the Belfer Center for Science and International Affairs, Harvard University

The Journal of Interdisciplinary History

Anne E. McCants, editor

Robert I. Rotberg, founding editor

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The Journal of Interdisciplinary History features substantive articles, research notes, review essays, and book reviews that relate historical study to other scholarly disciplines such as economics and demography. Topics span all geographical areas and periods of study.

Quarterly, ISSN 0022-1953 | Summer/Autumn/Winter/Spring
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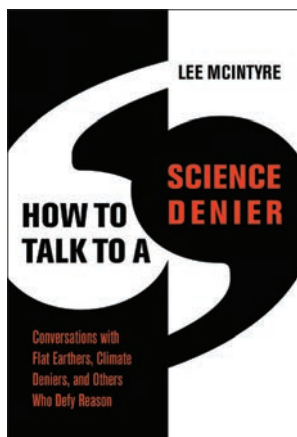
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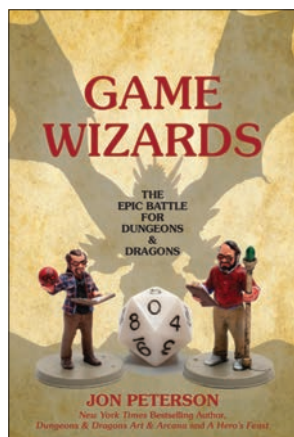
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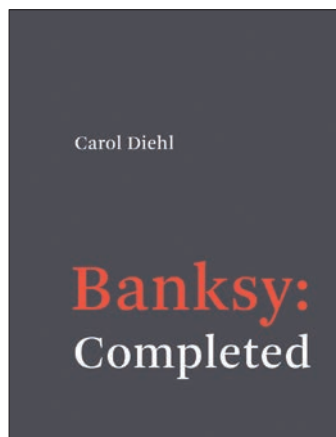
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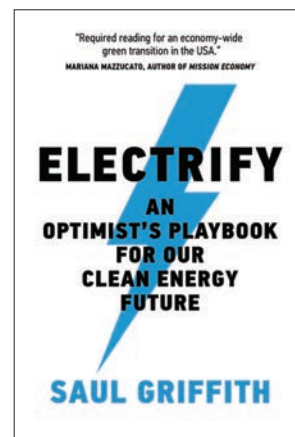
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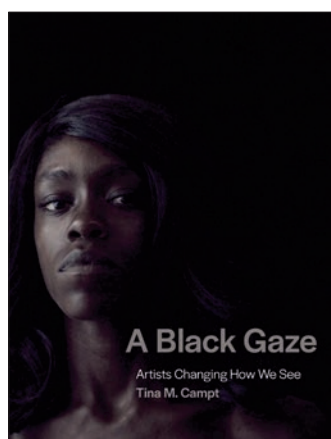
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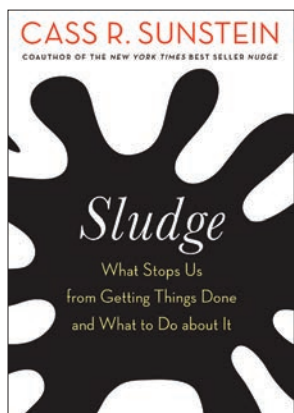
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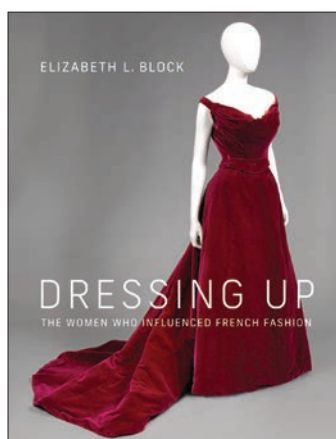
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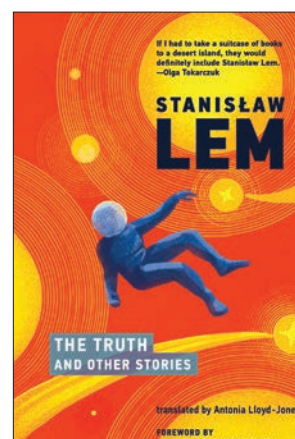
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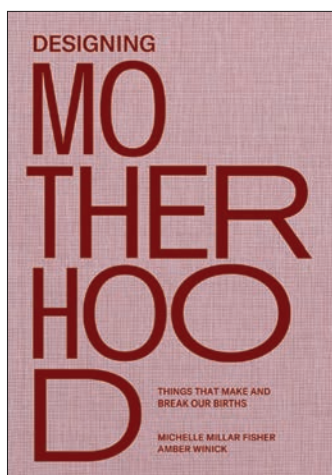
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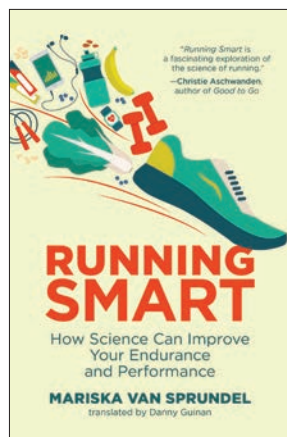
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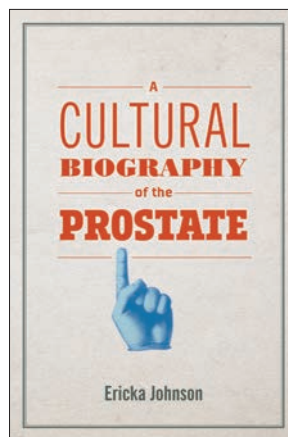
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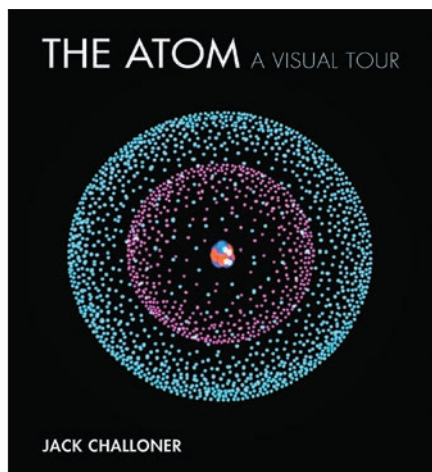
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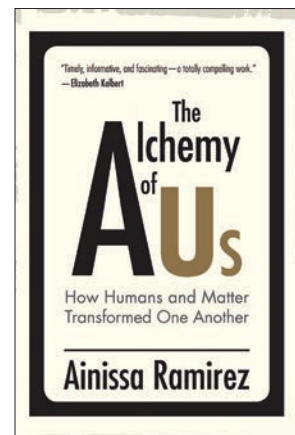
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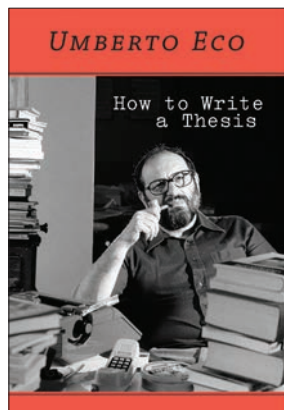
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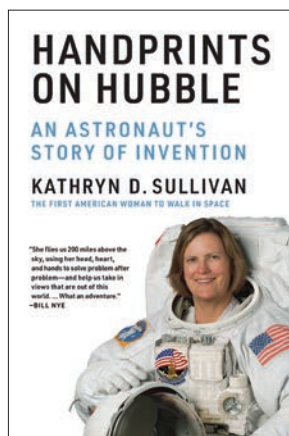
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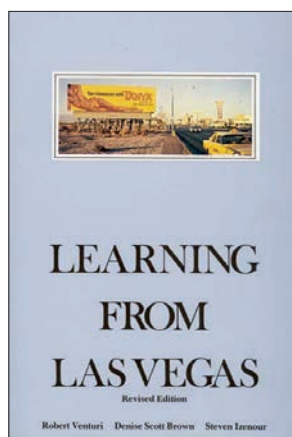
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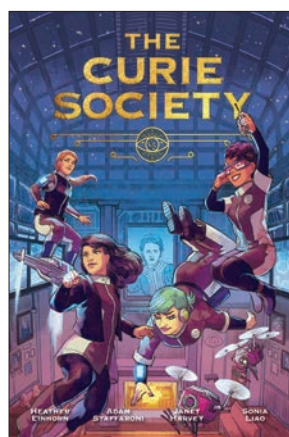
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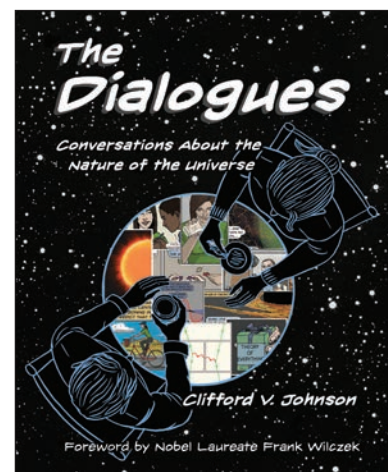
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