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Spring 2021



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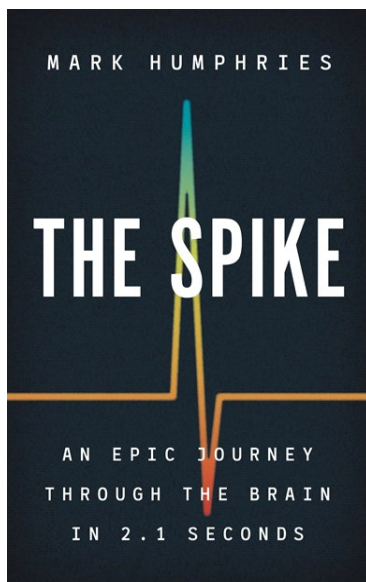
Catalogue Contents

	Page
New Titles	1
Best of Backlist	14
Backlist.....	19
Index.....	35
How to order.....	53



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The Spike

An Epic Journey Through the Brain in 2.1 Seconds

Mark Humphries

The story of a neural impulse and what it reveals about how our brains work

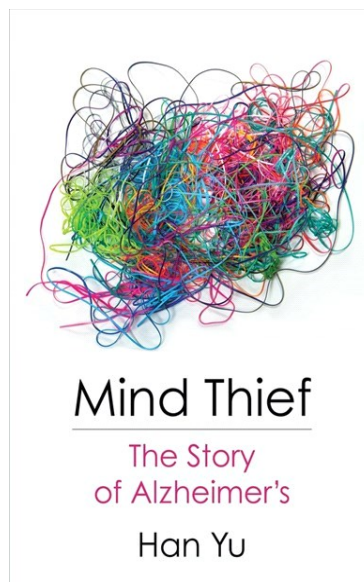
We see the last cookie in the box and think, can I take that? We reach a hand out. In the 2.1 seconds that this impulse travels through our brain, billions of neurons communicate with one another, sending blips of voltage through our sensory and motor regions. Neuroscientists call these blips “spikes.” Spikes enable us to do everything: talk, eat, run, see, plan, and decide. In *The Spike*, Mark Humphries takes readers on the epic journey of a spike through a single, brief reaction. In vivid language, Humphries tells the story of what happens in our brain, what we know about spikes, and what we still have left to understand about them.

Drawing on decades of research in neuroscience, Humphries explores how spikes are born, how they are transmitted, and how they lead us to action. He dives into previously unanswered mysteries: Why are most neurons silent? What causes neurons to fire spikes spontaneously, without input from other neurons or the outside world? Why do most spikes fail to reach any destination? Humphries presents a new vision of the brain, one where fundamental computations are carried out by spontaneous spikes that predict what will happen in the world, helping us to perceive, decide, and react quickly enough for our survival.

Traversing neuroscience’s expansive terrain, *The Spike* follows a single electrical response to illuminate how our extraordinary brains work.

9780691195889
\$24.95 | £20.00
Hardback
232 pages | 155.57mm : 234.95mm
2021

SCIENCE / Life Sciences
Princeton University Press



Mind Thief

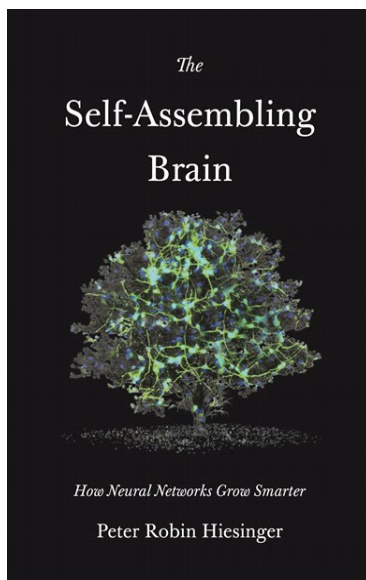
The Story of Alzheimer's
Han Yu

Alzheimer’s disease, a haunting and harrowing ailment, is one of the world’s most common causes of death. Alzheimer’s lingers for years, with patients’ outward appearance unaffected while their cognitive functions fade away. Patients lose the ability to work and live independently, to remember and recognize. There is still no proven way to treat Alzheimer’s because its causes remain unknown.

Mind Thief is a comprehensive and engaging history of Alzheimer’s that demystifies efforts to understand the disease. Beginning with the discovery of “presenile dementia” in the early twentieth century, Han Yu examines over a century of research and controversy. She presents the leading hypotheses for what causes Alzheimer’s; discusses each hypothesis’s tangled origins, merits, and gaps; and details their successes and failures. Yu synthesizes a vast amount of medical literature, historical studies, and media interviews, telling the gripping stories of researchers’ struggles while situating science in its historical, social, and cultural contexts. Her chronicling of the trajectory of Alzheimer’s research deftly balances rich scientific detail with attention to the wider implications. In narrating the attempts to find a treatment, Yu also offers a critical account of research and drug development and a consideration of the philosophy of aging. Wide-ranging and accessible, *Mind Thief* is an important book for all readers interested in the challenge of Alzheimer’s.

9780231198707
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Hardback
360 pages | 140mm : 216mm
2021

Science / History
Columbia University Press



The Self-Assembling Brain

How Neural Networks Grow Smarter

Peter Robin Hiesinger

What neurobiology and artificial intelligence tell us about how the brain builds itself

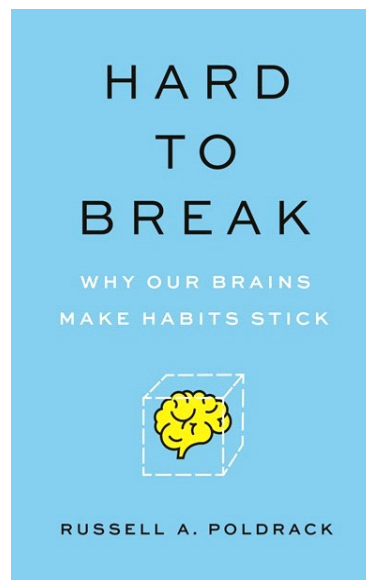
How does a neural network become a brain? While neurobiologists investigate how nature accomplishes this feat, computer scientists interested in artificial intelligence strive to achieve this through technology. *The Self-Assembling Brain* tells the stories of both fields, exploring the historical and modern approaches taken by the scientists pursuing answers to the quandary: What information is necessary to make an intelligent neural network?

As Peter Robin Hiesinger argues, “the information problem” underlies both fields, motivating the questions driving forward the frontiers of research. How does genetic information unfold during the years-long process of human brain development—and is there a quicker path to creating human-level artificial intelligence? Is the biological brain just messy hardware, which scientists can improve upon by running learning algorithms on computers? Can AI bypass the evolutionary programming of “grown” networks? Through a series of fictional discussions between researchers across disciplines, complemented by in-depth seminars, Hiesinger explores these tightly linked questions, highlighting the challenges facing scientists, their different disciplinary perspectives and approaches, as well as the common ground shared by those interested in the development of biological brains and AI systems. In the end, Hiesinger contends that the information content of biological and artificial neural networks must unfold in an algorithmic process requiring time and energy. There is no genome and no blueprint that depicts the final product. The self-assembling brain knows no shortcuts.

Written for readers interested in advances in neuroscience and artificial intelligence, *The Self-Assembling Brain* looks at how neural networks grow smarter.

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Hardback
368 pages | 155.45mm : 234.95mm
2021

SCIENCE / Life Sciences
Princeton University Press



Hard to Break

Why Our Brains Make Habits Stick

Russell A. Poldrack

The neuroscience of why bad habits are so hard to break—and how evidence-based strategies can help us change our behavior more effectively

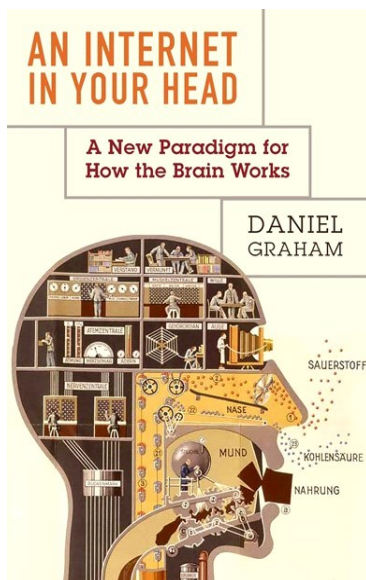
We all have habits we’d like to break, but for many of us it can be nearly impossible to do so. There is a good reason for this: the brain is a habit-building machine. In *Hard to Break*, leading neuroscientist Russell Poldrack provides an engaging and authoritative account of the science of how habits are built in the brain, why they are so hard to break, and how evidence-based strategies may help us change unwanted behaviors.

Hard to Break offers a clear-eyed tour of what neuroscience tells us about habit change and debunks “easy fixes” that aren’t backed by science. It explains how dopamine is essential for building habits and how the battle between habits and intentional goal-directed behaviors reflects a competition between different brain systems. Along the way, we learn how cues trigger habits; why we should make rules, not decisions; how the stimuli of the modern world hijack the brain’s habit machinery and lead to drug abuse and other addictions; and how neuroscience may one day enable us to hack our habits. Shifting from the individual to society, the book also discusses the massive habit changes that will be needed to address the biggest challenges of our time.

Moving beyond the hype to offer a deeper understanding of the biology of habits in the brain, *Hard to Break* reveals how we might be able to make the changes we desire—and why we should have greater empathy with ourselves and others who struggle to do so.

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SCIENCE / Life Sciences
Princeton University Press



An Internet in Your Head

A New Paradigm for How the Brain Works

Daniel Graham

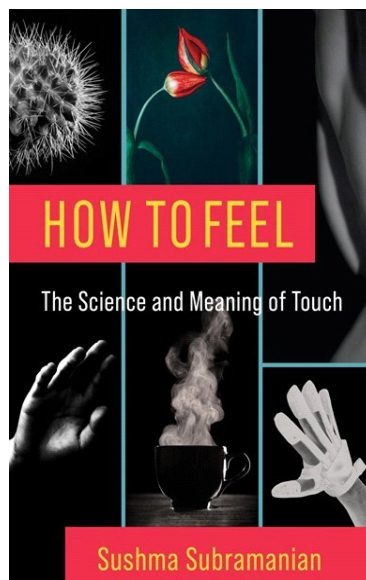
Whether we realize it or not, we think of our brains as computers. In neuroscience, the metaphor of the brain as a computer has defined the field for much of the modern era. But as neuroscientists increasingly reevaluate their assumptions about how brains work, we need a new metaphor to help us ask better questions.

The computational neuroscientist Daniel Graham offers an innovative paradigm for understanding the brain. He argues that the brain is not like a single computer—it is a communication system, like the internet. Both are networks whose power comes from their flexibility and reliability. The brain and the internet both must route signals throughout their systems, requiring protocols to direct messages from just about any point to any other. But we do not yet understand how the brain manages the dynamic flow of information across its entire network. The internet metaphor can help neuroscience unravel the brain's routing mechanisms by focusing attention on shared design principles and communication strategies that emerge from parallel challenges. Highlighting similarities between brain connectivity and the architecture of the internet can open new avenues of research and help unlock the brain's deepest secrets.

An Internet in Your Head presents a clear-eyed and engaging tour of brain science as it stands today and where the new paradigm might take it next. It offers anyone with an interest in brains a transformative new way to conceptualize what goes on inside our heads.

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360 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press



How to Feel

The Science and Meaning of Touch

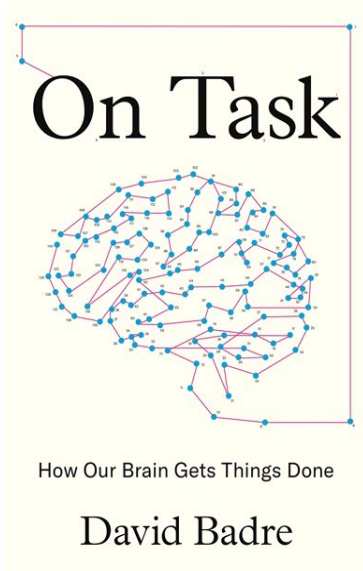
Sushma Subramanian

We are out of touch. Many people fear that we are trapped inside our screens, becoming less in tune with our bodies and losing our connection to the physical world. But the sense of touch has been undervalued since long before the days of digital isolation. Because of deeply rooted beliefs that favor the cerebral over the corporeal, touch is maligned as dirty or sentimental, in contrast with supposedly more elevated modes of perceiving the world.

How to Feel explores the scientific, physical, emotional, and cultural aspects of touch, reconnecting us to what is arguably our most important sense. Sushma Subramanian introduces readers to the scientists whose groundbreaking research is underscoring the role of touch in our lives. Through vivid individual stories—a man who lost his sense of touch in his late teens, a woman who experiences touch-emotion synesthesia, her own efforts to become less touch averse—Subramanian explains the science of the somatosensory system and our philosophical beliefs about it. She visits labs that are shaping the textures of objects we use every day, from cereal to synthetic fabrics. The book highlights the growing field of haptics, which is trying to incorporate tactile interactions into devices such as phones that touch us back and prosthetic limbs that can feel. *How to Feel* offers a new appreciation for a vital but misunderstood sense and how we can use it to live more fully.

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2021

Science / Life Sciences
Columbia University Press



On Task

How Our Brain Gets Things Done

David Badre

A look at the extraordinary ways the brain turns thoughts into actions—and how this shapes our everyday lives

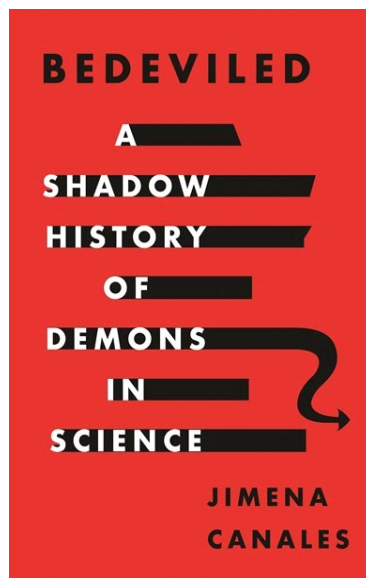
Why is it hard to text and drive at the same time? How do you resist eating that extra piece of cake? Why does staring at a tax form feel mentally exhausting? Why can your child expertly fix the computer and yet still forget to put on a coat? From making a cup of coffee to buying a house to changing the world around them, humans are uniquely able to execute necessary actions. How do we do it? Or in other words, how do our brains get things done? In *On Task*, cognitive neuroscientist David Badre presents the first authoritative introduction to the neuroscience of cognitive control—the remarkable ways that our brains devise sophisticated actions to achieve our goals. We barely notice this routine part of our lives. Yet, cognitive control, also known as executive function, is an astonishing phenomenon that has a profound impact on our well-being.

Drawing on cutting-edge research, vivid clinical case studies, and examples from daily life, Badre sheds light on the evolution and inner workings of cognitive control. He examines issues from multitasking and willpower to habitual errors and bad decision making, as well as what happens as our brains develop in childhood and change as we age—and what happens when cognitive control breaks down. Ultimately, Badre shows that cognitive control affects just about everything we do.

A revelatory look at how billions of neurons collectively translate abstract ideas into concrete plans, *On Task* offers an eye-opening investigation into the brain's critical role in human behavior.

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344 pages | 155.45mm : 234.95mm
2020

SCIENCE / Cognitive Science
Princeton University Press



Bedeviled

A Shadow History of Demons in Science

Jimena Canales

How scientists through the ages have conducted thought experiments using imaginary entities—demons—to test the laws of nature and push the frontiers of what is possible

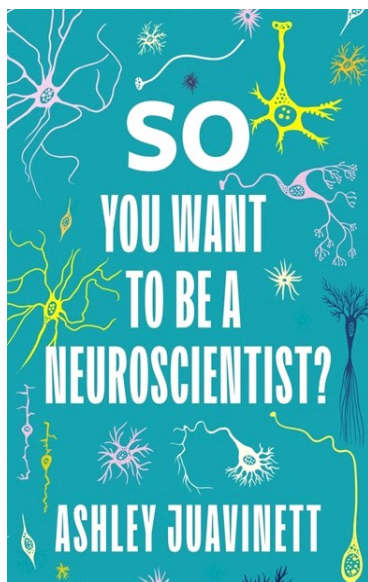
Science may be known for banishing the demons of superstition from the modern world. Yet just as the demon-haunted world was being exorcized by the enlightening power of reason, a new kind of demon mischievously materialized in the scientific imagination itself. Scientists began to employ hypothetical beings to perform certain roles in thought experiments—experiments that can only be done in the imagination—and these impish assistants helped scientists achieve major breakthroughs that pushed forward the frontiers of science and technology.

Spanning four centuries of discovery—from René Descartes, whose demon could hijack sensorial reality, to James Clerk Maxwell, whose molecular-sized demon deftly broke the second law of thermodynamics, to Darwin, Einstein, Feynman, and beyond—Jimena Canales tells a shadow history of science and the demons that bedevil it. She reveals how the greatest scientific thinkers used demons to explore problems, test the limits of what is possible, and better understand nature. Their imaginary familiars helped unlock the secrets of entropy, heredity, relativity, quantum mechanics, and other scientific wonders—and continue to inspire breakthroughs in the realms of computer science, artificial intelligence, and economics today.

The world may no longer be haunted as it once was, but the demons of the scientific imagination are alive and well, continuing to play a vital role in scientists' efforts to explore the unknown and make the impossible real.

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416 pages | 155.45mm : 234.95mm
2020

Science / History
Princeton University Press



So You Want to Be a Neuroscientist?

An Honest Account of Life as a Scientist
Ashley Juavinett

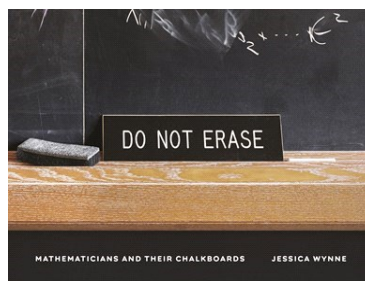
The pursuit to understand the human brain in all its intricacy is a fascinatingly complex challenge and neuroscience is one of the fastest-growing scientific fields worldwide. There is a wide range of career options open to those who wish to pursue a career in neuroscience, yet there are few resources that provide students with inside advice on how to go about it.

So You Want to Be a Neuroscientist? is a contemporary and engaging guide for aspiring neuroscientists of diverse backgrounds and interests. Fresh with the experience of having recently launched her own career, Ashley Juavinett provides a candid look at the field, offering practical guidance that explores everything from programming to personal stories.

Juavinett begins with a look at the field and its history, exploring our evolving understanding of how the brain works. She then tackles the nitty-gritty: how to apply to a PhD program, the daily life of a graduate student, the art of finding mentors and collaborators, and what to expect when working in a lab. Finally, she introduces readers to diverse young scientists whose career paths illustrate what you can do with a neuroscience degree. For anyone intrigued by the brain or seeking advice on how to further their ambitions of studying it, *So You Want to Be a Neuroscientist?* is a practical and timely overview of how to learn and thrive in this exciting field.

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328 pages | 139.7mm : 215.9mm
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SCIENCE / Life Sciences
Columbia University Press



Do Not Erase

Mathematicians and Their Chalkboards
Jessica Wynne

A photographic exploration of mathematicians' chalkboards

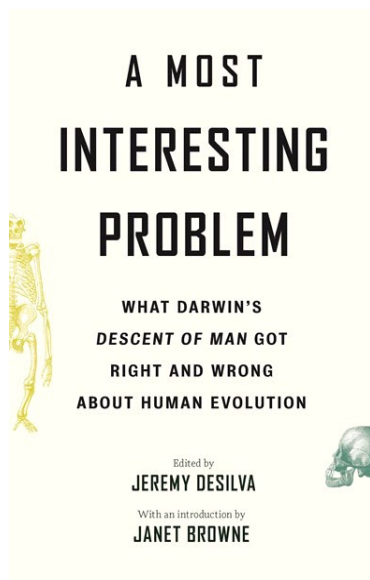
"A mathematician, like a painter or poet, is a maker of patterns," wrote the British mathematician G. H. Hardy. In *Do Not Erase*, photographer Jessica Wynne presents remarkable examples of this idea through images of mathematicians' chalkboards. While other fields have replaced chalkboards with whiteboards and digital presentations, mathematicians remain loyal to chalk for puzzling out their ideas and communicating their research. Wynne offers more than one hundred stunning photographs of these chalkboards, gathered from a diverse group of mathematicians around the world. The photographs are accompanied by essays from each mathematician, reflecting on their work and processes. Together, pictures and words provide an illuminating meditation on the unique relationships among mathematics, art, and creativity.

The mathematicians featured in this collection comprise exciting new voices alongside established figures, including Sun-Yung Alice Chang, Alain Connes, Misha Gromov, Andre Neves, Kasso Okoudjou, Peter Shor, Christina Sormani, Terence Tao, Claire Voisin, and many others. The companion essays give insights into how the chalkboard serves as a special medium for mathematical expression. The volume also includes an introduction by the author, an afterword by *New Yorker* writer Alec Wilkinson, and biographical information for each contributor.

Do Not Erase is a testament to the myriad ways that mathematicians use their chalkboards to reveal the conceptual and visual beauty of their discipline—shapes, figures, formulas, and conjectures created through imagination, argument, and speculation.

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Hardback
240 pages
2021

Mathematics / General
Princeton University Press



A Most Interesting Problem

What Darwin's *Descent of Man* Got Right and Wrong about Human Evolution

Jeremy Desilva, Janet Browne

Leading scholars take stock of Darwin's ideas about human evolution in the light of modern science

In 1871, Charles Darwin published *The Descent of Man*, a companion to *Origin of Species* in which he attempted to explain human evolution, a topic he called "the highest and most interesting problem for the naturalist." *A Most Interesting Problem* brings together twelve world-class scholars and science communicators to investigate what Darwin got right—and what he got wrong—about the origin, history, and biological variation of humans.

Edited by Jeremy DeSilva and with an introduction by acclaimed Darwin biographer Janet Browne, *A Most Interesting Problem* draws on the latest discoveries in fields such as genetics, paleontology, bioarchaeology, anthropology, and primatology. This compelling and accessible book tackles the very subjects Darwin explores in *Descent*, including the evidence for human evolution, our place in the family tree, the origins of civilization, human races, and sex differences.

A Most Interesting Problem is a testament to how scientific ideas are tested and how evidence helps to structure our narratives about human origins, showing how some of Darwin's ideas have withstood more than a century of scrutiny while others have not.

A Most Interesting Problem features contributions by Janet Browne, Jeremy DeSilva, Holly Dunsworth, Agustín Fuentes, Ann Gibbons, Yohannes Haile-Selassie, Brian Hare, John Hawks, Suzana Herculano-Houzel, Kristina Killgrove, Alice Roberts, and Michael J. Ryan.

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288 pages | 156mm : 234mm
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Science / Life Sciences
Princeton University Press



Things Fall Together

A Guide to the New Materials Revolution

Skylar Tibbits

From the visionary founder of the Self-Assembly Lab at MIT, a manifesto for the dawning age of active materials

Things in life tend to fall apart. Cars break down. Buildings fall into disrepair. Personal items deteriorate. Yet today's researchers are exploiting newly understood properties of matter to program materials that physically sense, adapt, and fall together instead of apart. These materials open new directions for industrial innovation and challenge us to rethink the way we build and collaborate with our environment. *Things Fall Together* is a provocative guide to this emerging, often mind-bending reality, presenting a bold vision for harnessing the intelligence embedded in the material world.

Drawing on his pioneering work on self-assembly and programmable material technologies, Skylar Tibbits lays out the core, frequently counterintuitive ideas and strategies that animate this new approach to design and innovation. From furniture that builds itself to shoes printed flat that jump into shape to islands that grow themselves, he describes how matter can compute and exhibit behaviors that we typically associate with biological organisms, and challenges our fundamental assumptions about what physical materials can do and how we can interact with them. Intelligent products today often rely on electronics, batteries, and complicated mechanisms. Tibbits offers a different approach, showing how we can design simple and elegant material intelligence that may one day animate and improve itself—and along the way help us build a more sustainable future.

Compelling and beautifully designed, *Things Fall Together* provides an insider's perspective on the materials revolution that lies ahead, revealing the spectacular possibilities for designing active materials that can self-assemble, collaborate, and one day even evolve and design on their own.

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Hardback
224 pages | 127mm : 203.2mm
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Technology & Engineering / Material Science
Princeton University Press

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Available

What Are the Chances?

Why We Believe in Luck

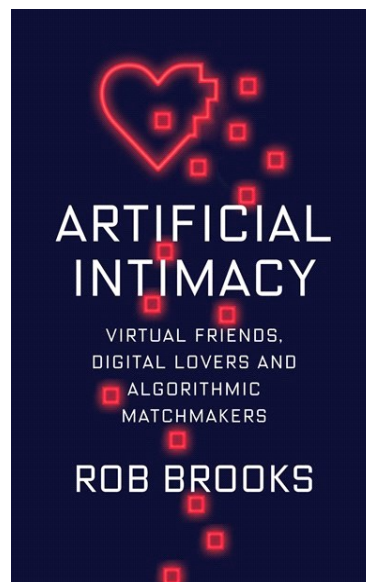
Barbara Blatchley

Most of us, no matter how rational we think we are, have a lucky charm, a good-luck ritual, or some other custom we follow in the hope that it will lead to a good result. Is the idea of luckiness just a way in which we try to impose order on chaos? Do we live in a world of flukes and coincidences, good and bad breaks, with outcomes as random as a roll of the dice—or can our beliefs help change our luck?

What Are the Chances? reveals how psychology and neuroscience explain the significance of the idea of luck. Barbara Blatchley explores how people react to random events in a range of circumstances, examining the evidence that the belief in luck helps us cope with a lack of control. She tells the stories of lucky and unlucky people—winning the lottery multiple times, surviving seven brushes with death, finding an apparently cursed Neanderthal mummy—as well as the accidental discoveries that fundamentally changed what we know about the brain. Blatchley considers our frequent misunderstanding of randomness, the history of luckiness in different cultures and religions, the surprising benefits of magical thinking, and many other topics. Offering a new view of how the brain handles the unexpected, *What Are the Chances?* shows why an arguably irrational belief can—fingers crossed—help us as we struggle with an unpredictable world.

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Hardback
280 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press



Artificial Intimacy

Virtual Friends, Digital Lovers, and Algorithmic Matchmakers

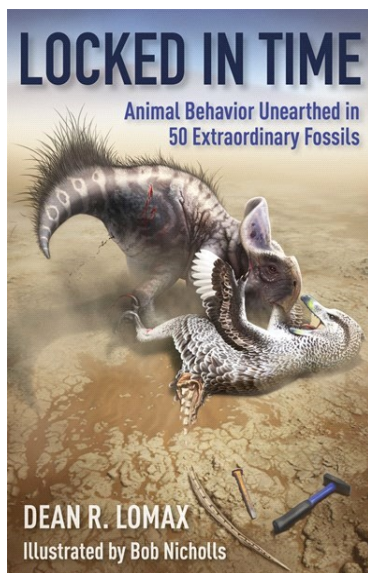
Rob Brooks

What happens when the human mind, evolved over eons, collides with twenty-first-century technology? Machines can now push psychological buttons, stimulating and sometimes exploiting the way people make friends, gossip with neighbors, and grow intimate with lovers. Sex robots present the humanoid face of this technological revolution—yet although it is easy to gawk at their uncanniness, more familiar technologies based in artificial intelligence and virtual reality are insinuating themselves into human interactions. Digital lovers, virtual friends, and algorithmic matchmakers help us manage our feelings in a world of cognitive overload. Will these machines, fueled by masses of user data and powered by algorithms that learn all the time, transform the quality of human life?

Artificial Intimacy offers an innovative perspective on the possibilities of the present and near future. The evolutionary biologist Rob Brooks explores the latest research on intimacy and desire to consider how new technologies and fundamental human behaviors interact. He details how existing artificial intelligences can already learn and exploit human social needs—and are getting better at what they do. Brooks combines an understanding of core human traits from evolutionary biology with analysis of how cultural, economic, and technological contexts shape the ways people express them. Beyond the technology, he asks what the implications of artificial intimacy will be for how we understand ourselves.

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288 pages | 139.7mm : 215.9mm
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Science / Life Sciences
Columbia University Press



Locked in Time

Animal Behavior Unearthed in 50 Extraordinary Fossils

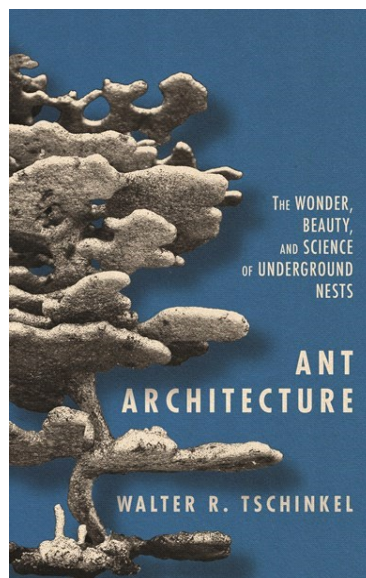
Dean R. Lomax, Robert Nicholls

Fossils allow us to picture the forms of life that inhabited the earth eons ago. But we long to know more: how did these animals actually behave? We are fascinated by the daily lives of our fellow creatures—how they reproduce and raise their young, how they hunt their prey or elude their predators, and more. What would it be like to see prehistoric animals as they lived and breathed?

From dinosaurs fighting to their deaths to elephant-sized burrowing ground sloths, this book takes readers on a global journey deep into the earth's past. *Locked in Time* showcases fifty of the most astonishing fossils ever found, brought together in five fascinating chapters that offer an unprecedented glimpse at the real-life behaviors of prehistoric animals. Dean R. Lomax examines the extraordinary direct evidence of fossils captured in the midst of everyday action: dinosaurs sitting on their eggs like birds, Jurassic flies preserved while mating, a *T. rex* infected by parasites. Each fossil, he reveals, tells a unique story about prehistoric life. Many recall behaviors typical of animals familiar to us today, evoking the chain of evolution that links all living things to their distant ancestors. *Locked in Time* allows us to see that fossils are not just inanimate objects: they can record the life stories of creatures as fully alive as any today. Striking and scientifically rigorous illustrations by renowned paleoartist Bob Nicholls bring these breathtaking moments to life.

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312 pages | 152.4mm : 228.6mm
2021

Science / Paleontology
Columbia University Press



Ant Architecture

The Wonder, Beauty, and Science of Underground Nests

Walter R. Tschinkel

An unprecedented look at the complex and beautiful world of underground ant architecture

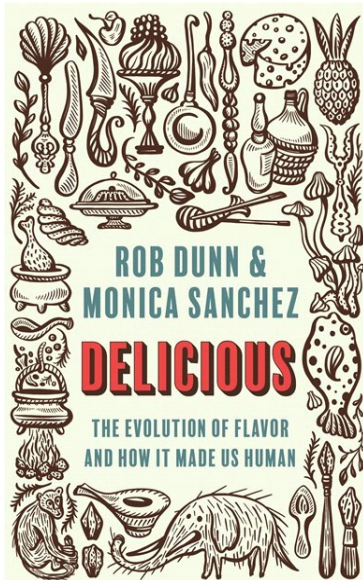
Walter Tschinkel has spent much of his career investigating the hidden subterranean realm of ant nests. This wonderfully illustrated book takes you inside an unseen world where thousands of ants build intricate homes in the soil beneath our feet.

Tschinkel describes the ingenious methods he has devised to study ant nests, showing how he fills a nest with plaster, molten metal, or wax and painstakingly excavates the cast. He guides you through living ant nests chamber by chamber, revealing how nests are created and how colonies function. How does nest architecture vary across species? Do ants have "architectural plans"? How do nests affect our environment? As he delves into these and other questions, Tschinkel provides a one-of-a-kind natural history of the planet's most successful creatures and a compelling firsthand account of a life of scientific discovery.

Offering a unique look at how simple methods can lead to pioneering science, *Ant Architecture* addresses the unsolved mysteries of underground ant nests while charting new directions for tomorrow's research, and reflects on the role of beauty in nature and the joys of shoestring science.

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2021

Nature / Insects & Spiders
Princeton University Press



Delicious

The Evolution of Flavor and How It Made Us Human

Rob Dunn, Monica Sanchez

A savory account of how the pursuit of delicious foods shaped human evolution

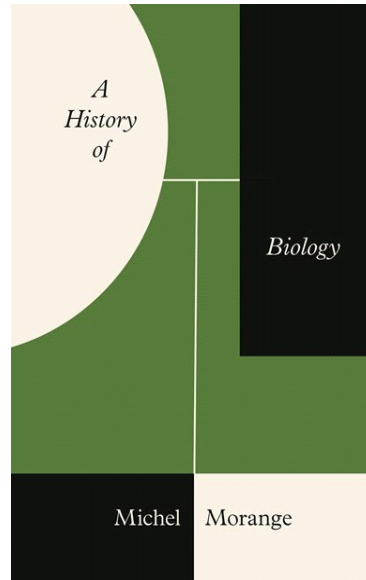
Nature, it has been said, invites us to eat by appetite and rewards by flavor. But what exactly are flavors? Why are some so pleasing while others are not? *Delicious* is a supremely entertaining foray into the heart of such questions.

With generous helpings of warmth and wit, Rob Dunn and Monica Sanchez offer bold new perspectives on why food is enjoyable and how the pursuit of delicious flavors has guided the course of human history. They consider the role that flavor may have played in the invention of the first tools, the extinction of giant mammals, the evolution of the world's most delicious and fatty fruits, the creation of beer, and our own sociality. Along the way, you will learn about the taste receptors you didn't even know you had, the best way to ferment a mastodon, the relationship between Paleolithic art and cheese, and much more.

Blending irresistible storytelling with the latest science, *Delicious* is a deep history of flavor that will transform the way you think about human evolution and the gustatory pleasures of the foods we eat.

9780691199474
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304 pages | 139.7mm : 215.9mm
2021

Science / Life Sciences
Princeton University Press



A History of Biology

Michel Morange, Teresa Lavender Fagan, Joseph Muiise

A comprehensive history of the biological sciences from antiquity to the modern era

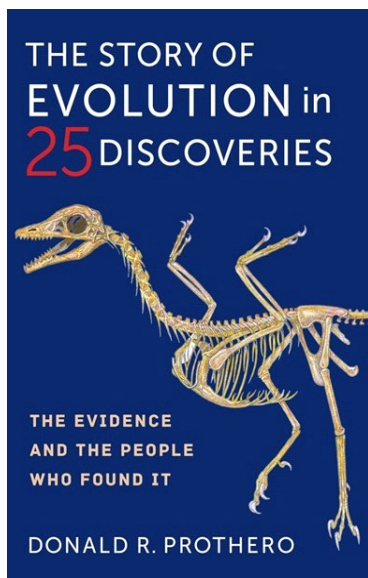
This book presents a global history of the biological sciences from ancient times to today, providing needed perspective on the development of biological thought while shedding light on the field's upheavals and key breakthroughs through the ages. Michel Morange brings to life the dynamic interplay of science, society, and biology's many subdisciplines, enabling readers to better appreciate the interdisciplinary exchanges that have shaped the field over the centuries.

Each chapter of this incisive book focuses on a specific period in the history of biology, describing the major transformations that occurred, the enduring scientific concerns behind these changes, and the implications of yesterday's science for today's. Morange covers everything from the first cell theory to the origins of the concept of ecosystems, and offers perspectives on areas that are often neglected by historians of biology, such as ecology, ethology, and plant biology. Along the way, he highlights the contributions of technology, the important role of hypothesis and experimentation, and the cultural contexts in which some of the most breathtaking discoveries in biology were made.

Unrivaled in scope and written by a world-renowned historian of science, *A History of Biology* is an ideal introduction for students and experts alike, and essential reading for anyone seeking to understand the present state of biological knowledge.

9780691175409
\$29.95 | £25.00
Hardback
432 pages | 155.45mm : 234.95mm
2021

Science / Life Sciences
Princeton University Press



The Story of Evolution in 25 Discoveries

The Evidence and the People Who Found It
Donald R. Prothero

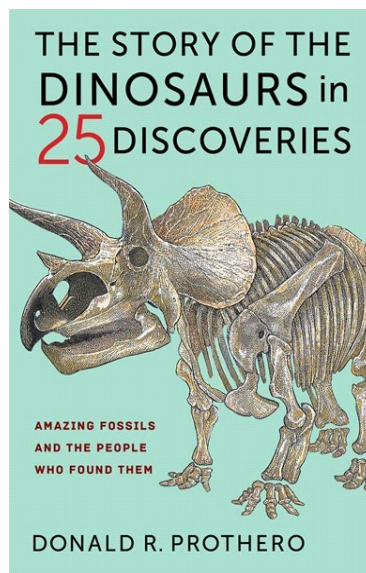
The theory of evolution unites the past, present, and future of living things. It puts humanity's place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing.

In *The Story of Evolution in 25 Discoveries*, Donald R. Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution. In twenty-five vignettes, he recounts the dramatic stories of the people who made crucial discoveries, placing each moment in the context of what it represented for the progress of science. He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution, following figures from Darwin to lesser-known researchers as they unlock the mysteries of the fossil record, the earth, and the universe. The book also features the stories of animal species strange and familiar, including humans—and our ties to some of our closest relatives and more distant cousins. Prothero's wide-ranging tales showcase awe-inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works.

Brisk and entertaining while firmly grounded in fundamental science, *The Story of Evolution in 25 Discoveries* is a captivating read for anyone curious about the evidence for evolution and what it means for humanity.

9780231190367
 \$35.00 | £30.00
 Hardback
 376 pages | 152.4mm : 228.6mm
 2020

Science / Life Sciences
Columbia University Press



The Story of the Dinosaurs in 25 Discoveries

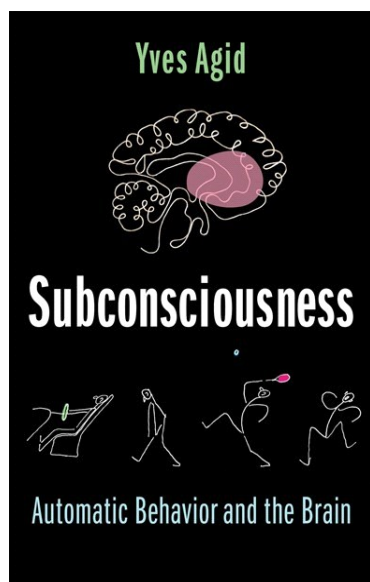
Amazing Fossils and the People Who Found Them
Donald R. Prothero

Today, any kid can rattle off the names of dozens of dinosaurs. But it took centuries of scientific effort—and a lot of luck—to discover and establish the diversity of dinosaur species we now know. How did we learn that *Triceratops* had three horns? Why don't many paleontologists consider *Brontosaurus* a valid species? What convinced scientists that modern birds are relatives of ancient *Velociraptor*?

In *The Story of the Dinosaurs in 25 Discoveries*, Donald R. Prothero tells the fascinating stories behind the most important fossil finds and the intrepid researchers who unearthed them. In twenty-five vivid vignettes, he weaves together dramatic tales of dinosaur discoveries with what modern science now knows about the species to which they belong. Prothero takes us from eighteenth-century sightings of colossal bones taken for biblical giants through recent discoveries of enormous predators even larger than *Tyrannosaurus*. He recounts the escapades of the larger-than-life personalities who made modern paleontology, including scientific rivalries like the nineteenth-century "Bone Wars." Prothero also details how to draw the boundaries between species and explores debates such as whether dinosaurs had feathers, explaining the findings that settled them or keep them going. Throughout, he offers a clear and rigorous look at what paleontologists consider sound interpretation of evidence. An essential read for any dinosaur lover, this book teaches us to see an ancient world ruled by giant majestic creatures anew.

9780231186032
 \$26.00 | £22.00
 Paperback
 488 pages | 152.4mm : 228.6mm
 2021

Science / Paleontology
Columbia University Press



Subconsciousness

Automatic Behavior and the Brain

Yves Agid

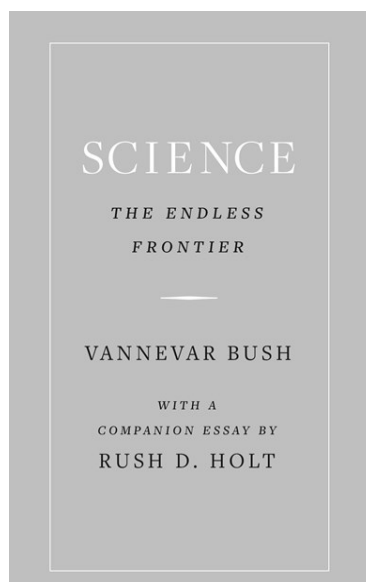
We are conscious of only a small fraction of our lives. Because the brain constantly receives an enormous quantity of information, we need to be able to do things without thinking about them—to act in “autopilot” mode. Automatic behaviors—the vast majority of our activities—occur without our conscious awareness, or subconsciously. Yet the physiological basis of subconsciousness remains poorly understood, despite its vast importance for physical and mental health.

The neurodegenerative disease expert Yves Agid offers a groundbreaking and accessible account of subconsciousness and its significance. He pinpoints the basal ganglia—the ancient “basement of the brain”—as the main physiological hub of the subconscious. Agid examines its roles in the control and production of automatic behavior, including motor, intellectual, and emotional processes. He highlights the consequences for various brain pathologies, showing how malfunctions of the subconscious have clinical repercussions including not only abnormal involuntary movements, as seen in Parkinson’s disease, but also psychiatric disorders such as obsessive-compulsive disorders and depression. Based on this understanding, Agid considers how seeing the basal ganglia as a therapeutic target can aid development of potential new treatments for neurological and psychiatric disorders.

Shedding new light on the physiological bases of our behavior and mental states, this book provides an innovative exploration of the complexities of the mind, with implications ranging from clinical applications to philosophy’s thorniest problems.

9780231201278
\$24.00 | £20.00
Paperback
128 pages | 128.524mm : 198.374mm
2021

SCIENCE / Life Sciences
Columbia University Press



Science, the Endless Frontier

Vannevar Bush, Rush D. Holt

The classic case for why government must support science—with a new essay by physicist and former congressman Rush Holt on what democracy needs from science today

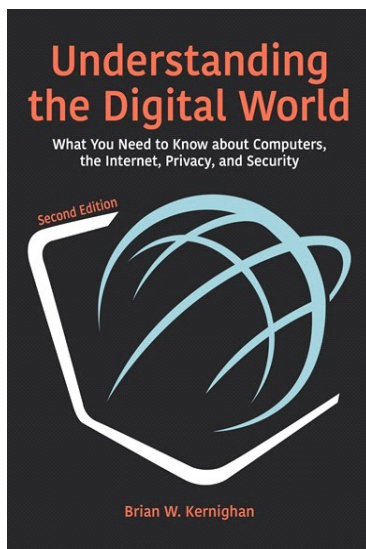
Science, the Endless Frontier is recognized as the landmark argument for the essential role of science in society and government’s responsibility to support scientific endeavors. First issued when Vannevar Bush was the director of the US Office of Scientific Research and Development during the Second World War, this classic remains vital in making the case that scientific progress is necessary to a nation’s health, security, and prosperity. Bush’s vision set the course for US science policy for more than half a century, building the world’s most productive scientific enterprise. Today, amid a changing funding landscape and challenges to science’s very credibility, *Science, the Endless Frontier* resonates as a powerful reminder that scientific progress and public well-being alike depend on the successful symbiosis between science and government.

This timely new edition presents this iconic text alongside a new companion essay from scientist and former congressman Rush Holt, who offers a brief introduction and consideration of what society needs most from science now. Reflecting on the report’s legacy and relevance along with its limitations, Holt contends that the public’s ability to cope with today’s issues—such as public health, the changing climate and environment, and challenging technologies in modern society—requires a more capacious understanding of what science can contribute. Holt considers how scientists should think of their obligation to society and what the public should demand from science, and he calls for a renewed understanding of science’s value for democracy and society at large.

A touchstone for concerned citizens, scientists, and policymakers, *Science, the Endless Frontier* endures as a passionate articulation of the power and potential of science.

9780691186627
\$12.95 | £10.99
Hardback
192 pages | 114.3mm : 177.8mm
2021

Science / Philosophy & Social Aspects
Princeton University Press



Understanding the Digital World

What You Need to Know about Computers, the Internet, Privacy, and Security, Second Edition
Brian W. Kernighan

A brand-new edition of the popular introductory textbook that explores how computer hardware, software, and networks work

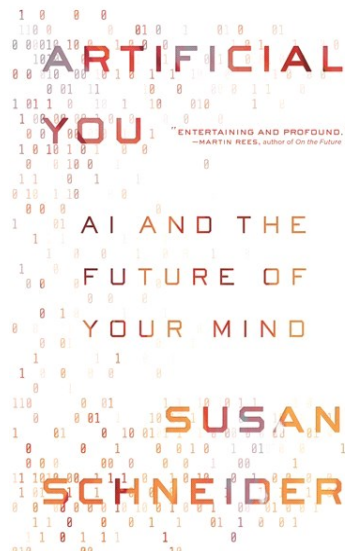
Computers are everywhere. Some are highly visible, in laptops, tablets, cell phones, and smart watches. But most are invisible, like those in appliances, cars, medical equipment, transportation systems, power grids, and weapons. We never see the myriad computers that quietly collect, share, and sometimes leak personal data about us. Governments and companies increasingly use computers to monitor what we do. Social networks and advertisers know more about us than we should be comfortable with. Criminals have all-too-easy access to our data. Do we truly understand the power of computers in our world?

In this updated edition of *Understanding the Digital World*, Brian Kernighan explains how computer hardware, software, and networks work. Topics include how computers are built and how they compute; what programming is; how the Internet and web operate; and how all of these affect security, privacy, property, and other important social, political, and economic issues. Kernighan touches on fundamental ideas from computer science and some of the inherent limitations of computers, and new sections in the book explore Python programming, big data, machine learning, and much more. Numerous color illustrations, notes on sources for further exploration, and a glossary explaining technical terms and buzzwords are included.

Understanding the Digital World is a must-read for readers of all backgrounds who want to know more about computers and communications.

9780691219103
 \$29.95 | £25.00
 Paperback
 304 pages | 177.8mm : 254mm
 2021

Computers / General
Princeton University Press



Artificial You

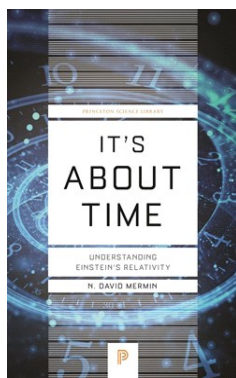
AI and the Future of Your Mind
Susan Schneider

A guide to AI's thorniest implications that asks: How shall we navigate our brave new world?

We are at a monumental turning point in human history. AI is taking intelligence in new directions. The strongest human competitors in chess, go, and *Jeopardy!* have been beaten by AIs, and AI is getting more sophisticated by the day. Further, AI research is going inside the human brain itself, attempting to augment human minds. It may even create greater-than-human-level intelligence, leading to a new generation of artificial minds—Minds 2.0. Susan Schneider, a philosopher, argues that these undertakings must not be attempted without a richer understanding of the nature of the mind. An insufficient grasp of the underlying philosophical issues could undermine the use of AI and brain enhancement technology, bringing about the demise or suffering of conscious beings. Examining the philosophical questions lying beneath the algorithms, Schneider takes on AI's thorniest implications.

9780691216744
 \$16.95 | £13.99
 Paperback
 192 pages | 139.7mm : 215.9mm
 2021

SCIENCE / Life Sciences
Princeton University Press



It's About Time

Understanding Einstein's Relativity
N. David Mermin

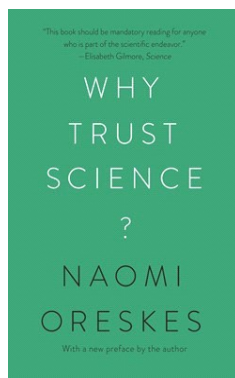
9780691218779
\$16.95 : £13.99
Paperback

208 pages | 139.7mm : 215.9mm
2021

Science
Princeton Science Library
Princeton University Press

A readable and entertaining look at how Einstein's special theory of relativity gives us a new understanding of the nature of time

Relativity ought to be an important part of everyone's education. Its subject is time, with which we all think we are familiar. Einstein's special theory of relativity reveals that some of our most intuitive notions about time are shockingly wrong. This clear, lively, and informal exposition of special relativity takes a highly original approach to introduce readers to the true nature of time. It is accessible to anyone who remembers a little high school algebra and elementary geometry. *It's About Time* offers deep insights to curious readers who have no technical scientific background.



Why Trust Science?

Naomi Oreskes

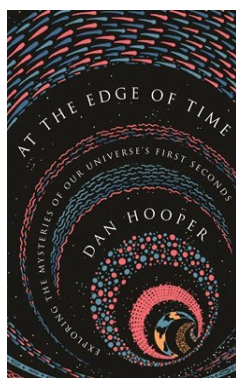
9780691212265
\$18.95 : £15.99
Paperback

392 pages | 139.7mm : 215.9mm
2021

Science
The University Center for Human Values Series
Princeton University Press

Why the social character of scientific knowledge makes it trustworthy

Are doctors right when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global warming? Why should we trust science when so many of our political leaders don't? Naomi Oreskes offers a bold and compelling defense of science, revealing why the social character of scientific knowledge is its greatest strength—and the greatest reason we can trust it. Tracing the history and philosophy of science from the late nineteenth century to today, this timely and provocative book features a new preface by Oreskes and critical responses by climate experts Ottmar Edenhofer and Martin Kowarsch, political scientist Jon Krosnick, philosopher of science Marc Lange, and science historian Susan Lindee, as well as a foreword by political theorist Stephen Macedo.



At the Edge of Time

Exploring the Mysteries of Our Universe's First Seconds
Dan Hooper

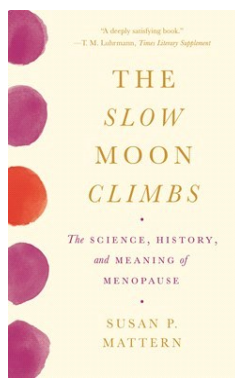
9780691206424
\$17.95 : £14.99
Paperback

248 pages | 139.7mm : 215.9mm
2021

Science
Science Essentials
Princeton University Press

A new look at the first few seconds after the Big Bang—and how research into these moments continues to revolutionize our understanding of our universe

Scientists in recent decades have made crucial discoveries about how our cosmos evolved over the past 13.8 billion years. But we still know little about what happened in the first seconds after the Big Bang. *At the Edge of Time* focuses on what we have learned and are striving to understand about this mysterious period at the beginning of cosmic history. Delving into the remarkable science of cosmology, Dan Hooper describes many of the extraordinary questions that scientists are asking about the origin and nature of our world. Hooper examines how the Large Hadron Collider and other experiments re-create the conditions of the Big Bang, how we may finally discover the way dark matter was formed during our universe's first moments, and how, with new telescopes, we are lifting the veil on the era of cosmic inflation. *At the Edge of Time* presents an accessible investigation of our universe and its birth.



The Slow Moon Climbs

The Science, History, and Meaning of Menopause
Susan Mattern

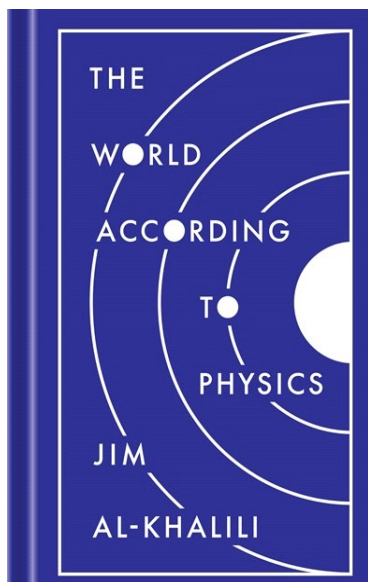
9780691216720
\$19.95 : £16.99
Paperback

480 pages | 133.35mm : 203.2mm
2021

Science
Princeton University Press

A surprising look at the role of menopause in human history—and why we should change the ways we think about it

Are the ways we look at menopause all wrong? Susan Mattern says yes and, in *The Slow Moon Climbs*, reveals just how wrong we have been. From the rainforests of Paraguay to the streets of Tokyo, Mattern draws on historical, scientific, and cultural research to show how perceptions of menopause developed from prehistory to today. Introducing new ways of understanding life beyond fertility, Mattern examines the fascinating "Grandmother Hypothesis," looks at agricultural communities where households relied on postreproductive women for the family's survival, and explores the emergence of menopause as a medical condition in the Western world. *The Slow Moon Climbs* casts menopause in the positive light it deserves—as an essential juncture and a key factor in human flourishing.



The World According to Physics

Jim Al-Khalili

Quantum physicist, *New York Times* bestselling author, and BBC host Jim Al-Khalili offers a fascinating and illuminating look at what physics reveals about the world

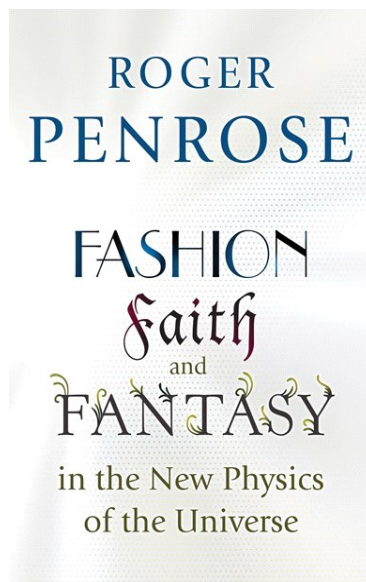
Shining a light on the most profound insights revealed by modern physics, Jim Al-Khalili invites us all to understand what this crucially important science tells us about the universe and the nature of reality itself.

Al-Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics—quantum theory, relativity, and thermodynamics—showing how all three must come together if we are ever to have a full understanding of reality. Using wonderful examples and thought-provoking analogies, Al-Khalili illuminates the physics of the extreme cosmic and quantum scales, the speculative frontiers of the field, and the physics that underpins our everyday experiences and technologies, bringing the reader up to speed with the biggest ideas in physics in just a few sittings. Physics is revealed as an intrepid human quest for ever more foundational principles that accurately explain the natural world we see around us, an undertaking guided by core values such as honesty and doubt. The knowledge discovered by physics both empowers and humbles us, and still, physics continues to delve valiantly into the unknown.

Making even the most enigmatic scientific ideas accessible and captivating, this deeply insightful book illuminates why physics matters to everyone and calls one and all to share in the profound adventure of seeking truth in the world around us.

9780691182308
\$16.95 | £12.99
Hardback
336 pages | 114.3mm : 177.8mm
2020

Science / Physics
Princeton University Press



Fashion, Faith, and Fantasy in the New Physics of the Universe

Roger Penrose

Nobel Prize-winning physicist Roger Penrose questions some of the most fashionable ideas in physics today, including string theory

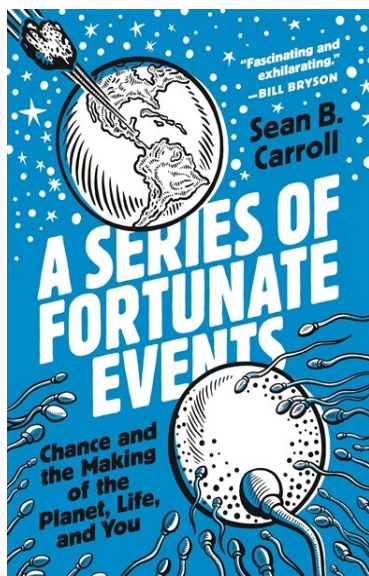
What can fashionable ideas, blind faith, or pure fantasy possibly have to do with the scientific quest to understand the universe? Surely, theoretical physicists are immune to mere trends, dogmatic beliefs, or flights of fancy? In fact, acclaimed physicist and bestselling author Roger Penrose argues that researchers working at the extreme frontiers of physics are just as susceptible to these forces as anyone else. In this provocative book, he argues that fashion, faith, and fantasy, while sometimes productive and even essential in physics, may be leading today's researchers astray in three of the field's most important areas—string theory, quantum mechanics, and cosmology.

Arguing that string theory has veered away from physical reality by positing six extra hidden dimensions, Penrose cautions that the fashionable nature of a theory can cloud our judgment of its plausibility. In the case of quantum mechanics, its stunning success in explaining the atomic universe has led to an uncritical faith that it must also apply to reasonably massive objects, and Penrose responds by suggesting possible changes in quantum theory. Turning to cosmology, he argues that most of the current fantastical ideas about the origins of the universe cannot be true, but that an even wilder reality may lie behind them. Finally, Penrose describes how fashion, faith, and fantasy have ironically also shaped his own work, from twistor theory, a possible alternative to string theory that is beginning to acquire a fashionable status, to "conformal cyclic cosmology," an idea so fantastic that it could be called "conformal crazy cosmology."

The result is an important critique of some of the most significant developments in physics today from one of its most eminent figures.

9780691178530
\$17.95 | £14.99
Paperback
520 pages | 127mm : 203.2mm
2017

Science / Philosophy & Social Aspects
Princeton University Press



A Series of Fortunate Events

Chance and the Making of the Planet, Life, and You

Sean B. Carroll

"Fascinating and exhilarating—Sean B. Carroll at his very best."—Bill Bryson, author of *The Body: A Guide for Occupants*

From acclaimed writer and biologist Sean B. Carroll, a rollicking, awe-inspiring story of the surprising power of chance in our lives and the world

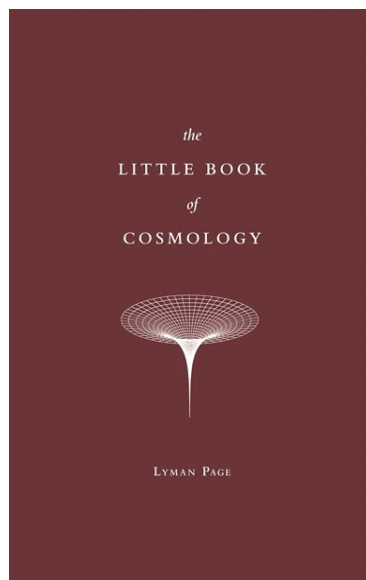
Why is the world the way it is? How did we get here? Does everything happen for a reason or are some things left to chance? Philosophers and theologians have pondered these questions for millennia, but startling scientific discoveries over the past half century are revealing that we live in a world driven by chance. *A Series of Fortunate Events* tells the story of the awesome power of chance and how it is the surprising source of all the beauty and diversity in the living world.

Like every other species, we humans are here by accident. But it is shocking just how many things—any of which might never have occurred—had to happen in certain ways for any of us to exist. From an extremely improbable asteroid impact, to the wild gyrations of the Ice Age, to invisible accidents in our parents' gonads, we are all here through an astonishing series of fortunate events. And chance continues to reign every day over the razor-thin line between our life and death.

This is a relatively small book about a really big idea. It is also a spirited tale. Drawing inspiration from Monty Python, Kurt Vonnegut, and other great thinkers, and crafted by one of today's most accomplished science storytellers, *A Series of Fortunate Events* is an irresistibly entertaining and thought-provoking account of one of the most important but least appreciated facts of life.

9780691201757
\$22.95 | £18.99
Hardback
224 pages | 133.35mm : 203.2mm
2020

Science / Life Sciences
Princeton University Press



The Little Book of Cosmology

Lyman Page

The cutting-edge science that is taking the measure of the universe

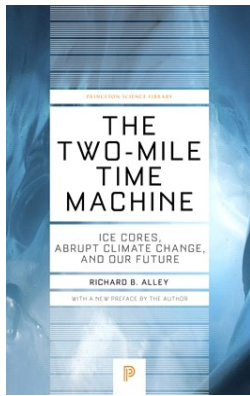
The Little Book of Cosmology provides a breathtaking look at our universe on the grandest scales imaginable. Written by one of the world's leading experimental cosmologists, this short but deeply insightful book describes what scientists are revealing through precise measurements of the faint thermal afterglow of the Big Bang—known as the cosmic microwave background, or CMB—and how their findings are transforming our view of the cosmos.

Blending the latest findings in cosmology with essential concepts from physics, Lyman Page first helps readers to grasp the sheer enormity of the universe, explaining how to understand the history of its formation and evolution in space and time. Then he sheds light on how spatial variations in the CMB formed, how they reveal the age, size, and geometry of the universe, and how they offer a blueprint for the formation of cosmic structure.

Not only does Page explain current observations and measurements, he describes how they can be woven together into a unified picture to form the Standard Model of Cosmology. Yet much remains unknown, and this incisive book also describes the search for ever deeper knowledge at the field's frontiers—from quests to understand the nature of neutrinos and dark energy to investigations into the physics of the very early universe.

9780691195780
\$19.95 | £16.99
Hardback
152 pages | 139.7mm : 215.9mm
2020

Science / Cosmology
Princeton University Press

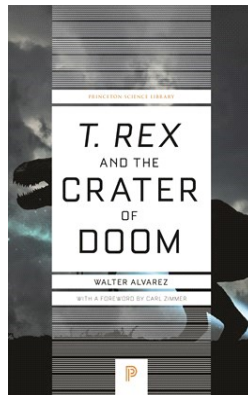


The Two-Mile Time Machine

Ice Cores, Abrupt Climate Change, and Our Future - Updated Edition

Richard B. Alley

9780691160832
\$17.95 | £14.99
Paperback | 2014
Science
Princeton Science Library
Princeton University Press



T. rex and the Crater of Doom

Walter Alvarez, Carl Zimmer

9780691169668
\$18.95 | £15.99
Paperback | 2015
Science
Princeton Science Library
Princeton University Press

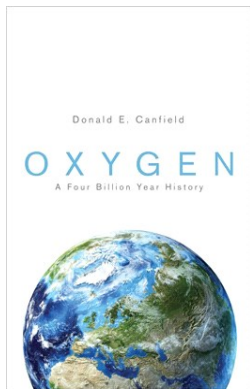


Timefulness

How Thinking Like a Geologist Can Help Save the World

Marcia Bjornerud

9780691202631
\$16.95 | £13.99
Paperback | 2020
Science
Princeton University Press

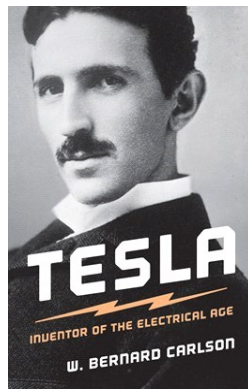


Oxygen

A Four Billion Year History

Donald E. Canfield

9780691168364
\$17.95 | £14.99
Paperback | 2015
Science
Science Essentials
Princeton University Press

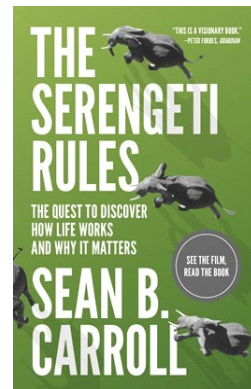


Tesla

Inventor of the Electrical Age

W. Bernard Carlson

9780691165615
\$19.95 | £16.99
Paperback | 2015
Biography & Autobiography
Princeton University Press

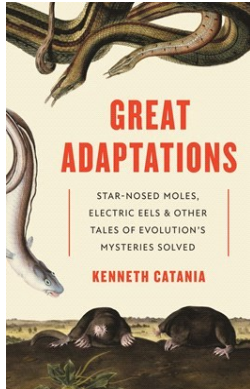


The Serengeti Rules

The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author

Sean B. Carroll

9780691175683
\$16.95 | £13.99
Paperback | 2017
Science
Princeton University Press

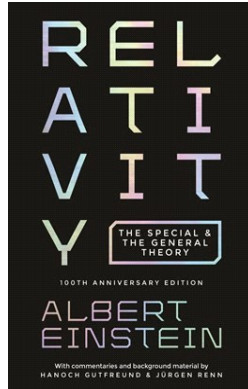


Great Adaptations

Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved

Kenneth Catania

9780691195254
\$27.95 | £22.00
Hardback | 2020
Science
Princeton University Press

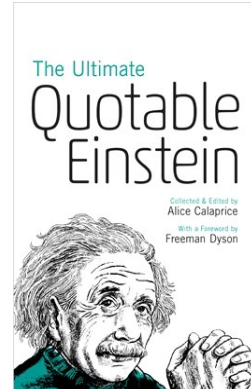


Relativity

The Special and the General Theory - 100th Anniversary Edition

Albert Einstein, Hanoch Gutfreund, Jürgen Renn

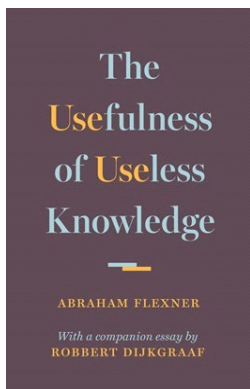
9780691191812
\$16.95 | £13.99
Paperback | 2019
Science
Princeton University Press



The Ultimate Quotable Einstein

Albert Einstein, Alice Calaprice, Freeman Dyson

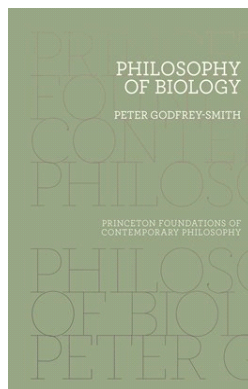
9780691160146
\$16.95 | £13.99
Paperback | 2013
Science
Princeton University Press



The Usefulness of Useless Knowledge

Abraham Flexner, Robbert Dijkgraaf

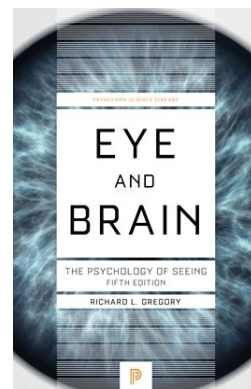
9780691174761
\$9.95 | £8.99
Hardback | 2017
Science
Princeton University Press



Philosophy of Biology

Peter Godfrey-Smith

9780691174679
\$19.95 | £16.99
Paperback | 2016
Philosophy
Princeton Foundations of Contemporary Philosophy
Princeton University Press

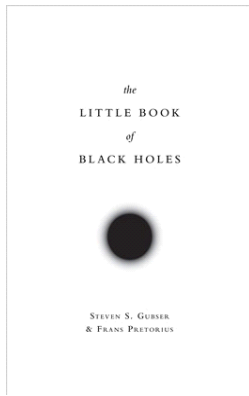


Eye and Brain

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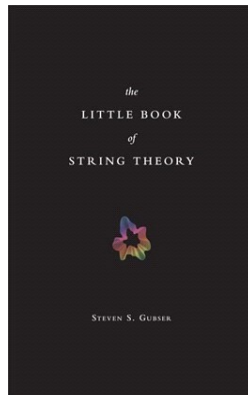
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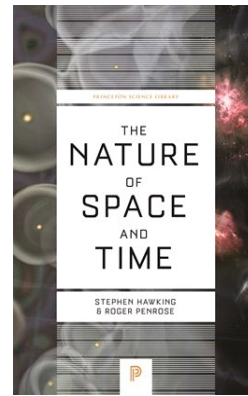
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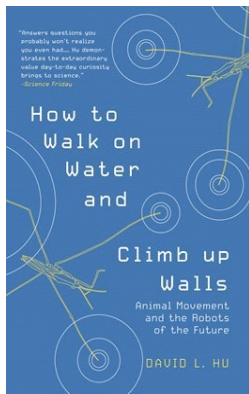
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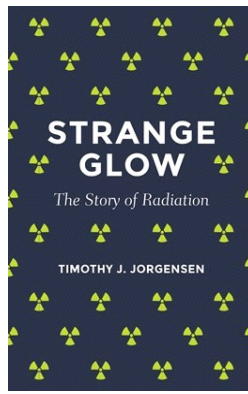


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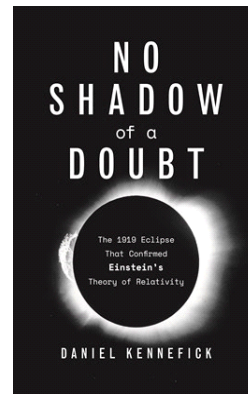
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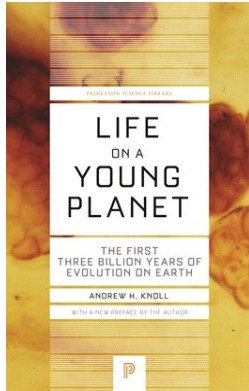


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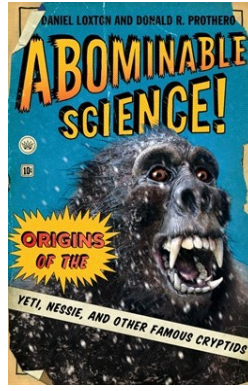


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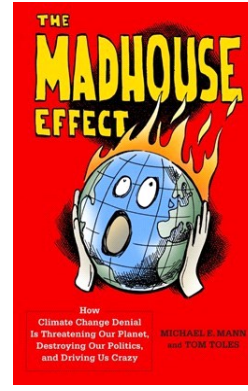


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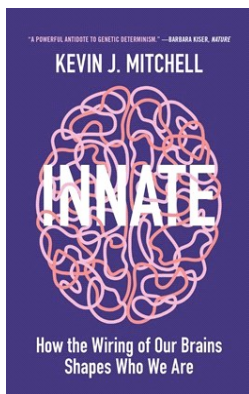


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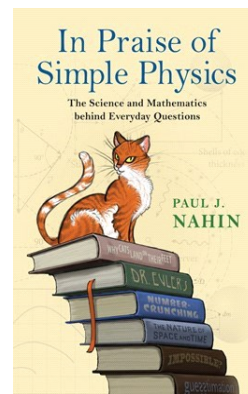


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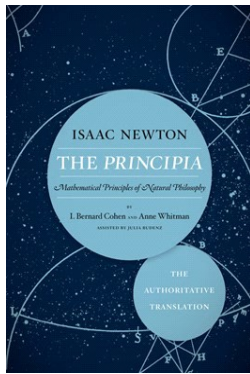


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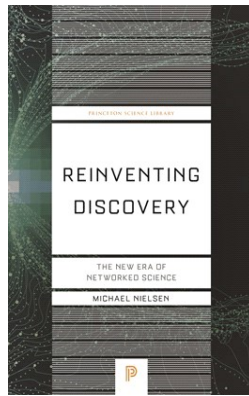


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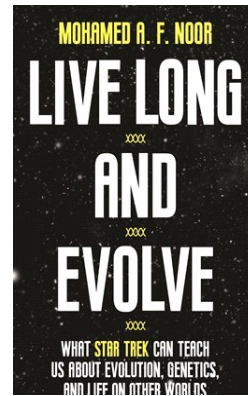


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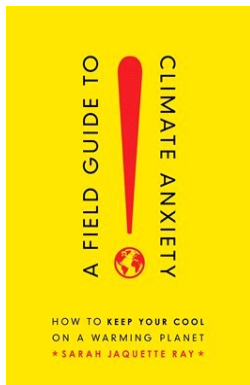


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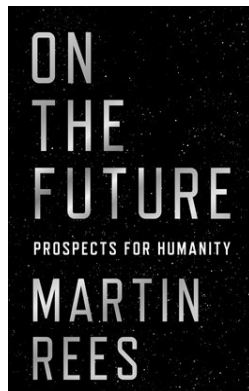


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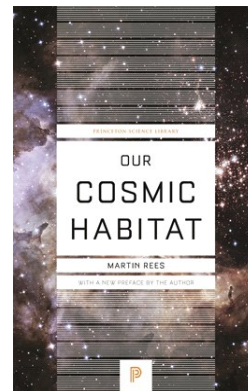


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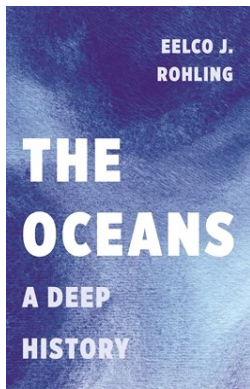


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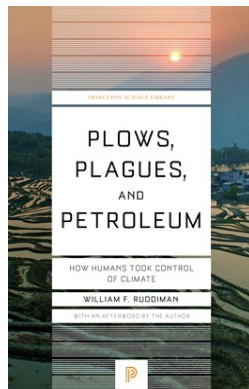


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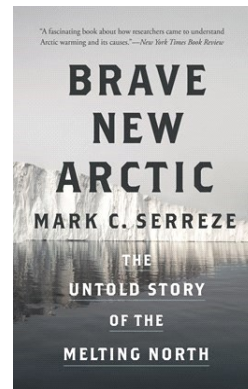


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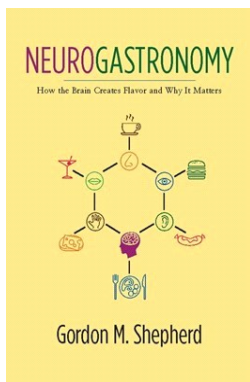


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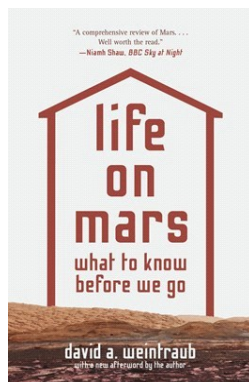


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Index

23rd Cycle, The: Learning to Live with a Stormy Star ; Sten Odenwald.	29
Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids ; Daniel Loxton.	17, 27
Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought ; George Christopher Williams.	34
Adler, Charles L.; Wizards, Aliens, and Starships: Physics and Math in Fantasy and Science Fiction.	19, 19
Adventures among Ants: A Global Safari with a Cast of Trillions ; Mark W. Moffett.	28
Adventures of a Mathematician ; S. M. Ulam.	33
Against the Tide: The Battle for America's Beaches ; Cornelia Dean.	22
Agid, Yves; Subconsciousness: Automatic Behavior and the Brain.	11
Agosta, William; Thieves, Deceivers, and Killers: Tales of Chemistry in Nature.	19
Agrarian Dreams: The Paradox of Organic Farming in California ; Julie Guthman.	25
Agrawal, Anurag; Monarchs and Milkweed: A Migrating Butterfly, a Poisonous Plant, and Their Remarkable Story of Coevolution.	19
Agusti, Jordi; Mammoths, Sabertooths, and Hominids: 65 Million Years of Mammalian Evolution in Europe.	19
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Alan Turing's Systems of Logic: The Princeton Thesis	19, 19
Albert Einstein, Mileva Maric: The Love Letters ; Albert Einstein.	23
Albert Einstein, The Human Side: Glimpses from His Archives ; Albert Einstein.	23
Albright, L. Barry; Biostratigraphy and Vertebrate Paleontology of the San Timoteo Badlands, Southern California.	19
Alchemy of Disease, The: How Chemicals and Toxins Cause Cancer and Other Illnesses ; John Whysner.	34
Alexander, R. McNeill; Dynamics of Dinosaurs and Other Extinct Giants.	19
Alfred Russel Wallace: A Life ; Peter Raby.	31
Alien Oceans: The Search for Life in the Depths of Space ; Kevin Hand.	25
Al-Khalili, Jim; The World According to Physics.	14
All about Birds: A Short Illustrated History of Ornithology ; Valérie Chansigaud.	21
Alley, Richard B.; The Two-Mile Time Machine: Ice Cores, Abrupt Climate Change, and Our Future - Updated Edition.	16
Alvarez, Walter; T. rex and the Crater of Doom.	16
American Bison: A Natural History ; Dale F. Lott.	27
American Pests: The Losing War on Insects from Colonial Times to DDT ; James E. McWilliams.	28
America's Largest Classroom: What We Learn from Our National Parks ; Jessica L. Thompson.	32
Among African Apes: Stories and Photos from the Field	31
Amphibians and Reptiles of La Selva, Costa Rica, and the Caribbean Slope: A Comprehensive Guide ; Craig Guyer.	25
Andersen, Geoff; The Telescope: Its History, Technology, and Future.	19
Andersen, Ken Haste; Fish Ecology, Evolution, and Exploitation: A New Theoretical Synthesis.	19
Angular Momentum in Quantum Mechanics ; A. R. Edmonds.	22
Animal Attractions: Nature on Display in American Zoos ; Elizabeth Hanson.	25
Ant Architecture: The Wonder, Beauty, and Science of Underground Nests ; Walter R. Tschinkel.	8
Ant Encounters: Interaction Networks and Colony Behavior ; Deborah M. Gordon.	24
Antón, Mauricio; The Big Cats and Their Fossil Relatives: An Illustrated Guide to Their Evolution and Natural History.	19
Ants of North America: A Guide to the Genera ; Brian L. Fisher.	23
Apocalypse: Earthquakes, Archaeology, and the Wrath of God ; Amos Nur.	29
Archer, David; The Global Carbon Cycle.	19
Archer, David; The Long Thaw: How Humans Are Changing the Next 100,000 Years of Earth's Climate.	19
Archibald, J. David; Origins of Darwin's Evolution: Solving the Species Puzzle Through Time and Place.	19
Armstrong, Melanie; Germ Wars: The Politics of Microbes and America's Landscape of Fear.	19
Artificial Intimacy: Virtual Friends, Digital Lovers, and Algorithmic Matchmakers ; Rob Brooks.	7
Artificial You: AI and the Future of Your Mind ; Susan Schneider.	12, 32
Åström, Karl Johan; Feedback Systems: An Introduction for Scientists and Engineers, Second Edition.	19
At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds ; Dan Hooper.	13, 25
Atlas of Climate Change, The: Mapping the World's Greatest Challenge ; Kirstin Dow.	22
Atmosphere, Clouds, and Climate ; David Randall.	31
Atoms Within Us, The ; Ernest Borek.	20
Autopsy of a Crime Lab: Exposing the Flaws in Forensics ; Brandon L. Garrett.	24
Axelrod, Daniel I.; A Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California.	19
Axelrod, Daniel I.; The Eocene Thunder Mountain Flora of Central Idaho.	19
Bad Advice: Or Why Celebrities, Politicians, and Activists Aren't Your Best Source of Health Information ; Paul A. Offit.	29, 29
Badre, David; On Task: How Our Brain Gets Things Done.	4
Bailyn, Charles D.; What Does a Black Hole Look Like?.	19
Balancing on a Planet: The Future of Food and Agriculture ; David A. Cleveland.	21, 21
Ball, Philip; Designing the Molecular World: Chemistry at the Frontier.	19
Ballard, Robert D.; The Eternal Darkness: A Personal History of Deep-Sea Exploration.	19
Baluja, Shumeet; The Silicon Jungle: A Novel of Deception, Power, and Internet Intrigue.	19
Barker, Gillian; Beyond Biofatalism: Human Nature for an Evolving World.	19
Barnard, Edward; New York City Trees: A Field Guide for the Metropolitan Area.	19
Barnum Brown: The Man Who Discovered <i>Tyrannosaurus rex</i> ; Lowell Dingus.	22
Baumberg, Jeremy J.; The Secret Life of Science: How It Really Works and Why It Matters.	19
Beach Book, The: Science of the Shore ; Carl Hobbs.	25
Beaches and Parks from Monterey to Ventura: Counties Included: Monterey, San Luis Obispo, Santa Barbara, Ventura ; California Coastal Commis.	21

Beard, Randal W.; Small Unmanned Aircraft: Theory and Practice.	19
Bearded Lady Project, The: Challenging the Face of Science.	28
Beasts of Eden: Walking Whales, Dawn Horses, and Other Enigmas of Mammal Evolution; David Rains Wallace.	33
Bedeveled: A Shadow History of Demons in Science; Jimena Canales.	4
Beehler, Bruce M.; New Guinea: Nature and Culture of Earth's Grandest Island.	19
Before the Indians; Björn Kurtén.	26
Beginner's Guide to Winning the Nobel Prize, The: Advice for Young Scientists; Peter Doherty.	22, 22
Begun, David R.; The Real Planet of the Apes: A New Story of Human Origins.	19, 19
Beidleman, Linda H.; Plants of the San Francisco Bay Region: Mendocino to Monterey.	19
Belbruno, Edward; Fly Me to the Moon: An Insider's Guide to the New Science of Space Travel.	19
Bender, Michael L.; Paleoclimate.	19
Benewick, Robert; The State of China Atlas: Mapping the World's Fastest-Growing Economy.	19
Ben-Menahem, Yemima; Causation in Science.	19
Bennett, Jeffrey; Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future.	19, 19
Bennett, Jeffrey; What Is Relativity?: An Intuitive Introduction to Einstein's Ideas, and Why They Matter.	20, 20
Berendzen, Richard; Man Discovers the Galaxies.	20
Berson, Josh; The Human Scaffold: How Not to Design Your Way Out of a Climate Crisis.	20
Berta, Annalisa; Return to the Sea: The Life and Evolutionary Times of Marine Mammals.	20, 20
Beyond Biofatalism: Human Nature for an Evolving World; Gillian Barker.	19
Beyond Global Warming: How Numerical Models Revealed the Secrets of Climate Change; Syukuro Manabe.	27, 27
Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future; Jeffrey Bennett	19, 19
Big Cats and Their Fossil Relatives, The: An Illustrated Guide to Their Evolution and Natural History; Mauricio Antón.	19
Billington, David P.; Power, Speed, and Form: Engineers and the Making of the Twentieth Century.	20
Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey; Philip J. Pauly.	30
Biostratigraphy and Vertebrate Paleontology of the San Timoteo Badlands, Southern California; L. Barry Albright	19
Birth of the Earth, The: A Wanderlied Through Space, Time, and the Human Imagination; David E. Fisher.	23
Bjornerud, Marcia; Timefulness: How Thinking Like a Geologist Can Help Save the World.	16, 20
Blatchley, Barbara; What Are the Chances?: Why We Believe in Luck.	7
Blind Spot, The: Science and the Crisis of Uncertainty; William Byers.	20
Bloom, Joshua S.; What Are Gamma-Ray Bursts?	20
Bonduriansky, Russell; Extended Heredity: A New Understanding of Inheritance and Evolution.	20, 20
Bonner, John Tyler; Randomness in Evolution.	20
Bonner, John Tyler; The Social Amoebae: The Biology of Cellular Slime Molds.	20
Bonner, John Tyler; Why Size Matters: From Bacteria to Blue Whales.	20
Bonobo: The Forgotten Ape; Frans B. M. de Waal.	22
Borek, Ernest; The Atoms Within Us.	20

Bowler, Peter J.; Evolution: The History of an Idea, 25th Anniversary Edition, With a New Preface.	20
Boyd, Robert; A Different Kind of Animal: How Culture Transformed Our Species.	20, 20
Bozeman, Barry; The Strength in Numbers: The New Science of Team Science.	20, 20
Brackenridge, J. Bruce; The Key to Newton's Dynamics: The Kepler Problem and the Principia.	20
Bradley, Richard A.; Common Spiders of North America.	20
Brave New Arctic: The Untold Story of the Melting North; Mark C. Serreze.	18, 32
Braverman, Irus; Coral Whisperers: Scientists on the Brink	20
Bribiescas, Richard G.; How Men Age: What Evolution Reveals about Male Health and Mortality.	20, 20
Brief History of Herpetology in the Museum of Vertebrate Zoology, University of California, Berkeley, with a List of Type Specimens of Recent Amphibians and Reptiles; Javier A. Rodríguez-Robles.	31
Broecker, Wally; The Great Ocean Conveyor: Discovering the Trigger for Abrupt Climate Change.	20
Brooks, Rob; Artificial Intimacy: Virtual Friends, Digital Lovers, and Algorithmic Matchmakers.	7
Brown, Andrew; In the Beginning Was the Worm: Finding the Secrets of Life in a Tiny Hermaphrodite.	20
Brown, John W.; Systematics of Anopina Obratzsov (Lepidoptera Tortricidae: Euliini).	20
Brown, John W.; Systematics of the Chrysoxena Group of Genera (Lepidoptera: Tortricidae: Euliini).	20
Browne, Janet; Charles Darwin: The Power of Place.	20
Browne, Janet; Charles Darwin: Voyaging.	20
Bryson, Arthur E.; Control of Spacecraft and Aircraft.	20
Bub, Tanya; Totally Random: Why Nobody Understands Quantum Mechanics (A Serious Comic on Entanglement)	20
Buddhism and Science: Breaking New Ground.	34
Building Physical Intuition; Douglas Hamilton.	25
Bullo, Francesco; Distributed Control of Robotic Networks: A Mathematical Approach to Motion Coordination Algorithms	20
Bush, Vannevar; Science, the Endless Frontier.	11
Butler, Kiera; Raise: What 4-H Teaches Seven Million Kids and How Its Lessons Could Change Food and Farming Forever	20
Byers, William; The Blind Spot: Science and the Crisis of Uncertainty.	20
Calaprice, Alice; An Einstein Encyclopedia.	20
California Amphibian and Reptile Species of Special Concern; Robert C. Thomson.	33
California Coastal Commis; Beaches and Parks from Monterey to Ventura: Counties Included: Monterey, San Luis Obispo, Santa Barbara, Ventura.	21
California Insects; Jerry A. Powell.	30
California Quail, The; A. Starker Leopold.	27
California Serpentes: Flora, Vegetation, Geology, Soils, and Management Problems; Arthur R. Kruckeberg.	26
Calinger, Ronald S.; Leonhard Euler: Mathematical Genius in the Enlightenment.	21
Can the Laws of Physics Be Unified?; Paul Langacker.	27
Canales, Jimena; Bedeveled: A Shadow History of Demons in Science.	4
Canales, Jimena; The Physicist and the Philosopher: Einstein, Bergson, and the Debate That Changed Our Understanding of Time.	21
Canfield, Donald E.; Oxygen: A Four Billion Year History	16, 21
Canguilhem, Georges; The Normal and the Pathological.	21

Carle, David; Introduction to Air in California.	21
Carle, David; Introduction to Water in California.	21
Carle, David; Traveling the 38th Parallel: A Water Line around the World.	21
Carlson, W. Bernard; Tesla: Inventor of the Electrical Age. . .	16
Carroll, Sean B.; A Series of Fortunate Events: Chance and the Making of the Planet, Life, and You.	15
Carroll, Sean B.; The Serengeti Rules: The Quest to Discover How Life Works and Why It Matters.	21
Carroll, Sean B.; The Serengeti Rules: The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author.	16
Cat Wars: The Devastating Consequences of a Cuddly Killer ; Peter P. Marra.	28
Cataclysms: A New Geology for the Twenty-First Century ; Michael R. Rampino.	31
Catania, Kenneth; Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved	16
Caterino, Michael S.; The Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus: (Coleoptera: Histeridae)	21
Causation in Science ; Yemima Ben-Menahem.	19
Causes of Evolution, The ; John Burdon Haldane.	25
Cave Bear Story, The: Life and Death of a Vanished Animal ; Björn Kurtén.	26
Cells to Civilizations: The Principles of Change That Shape Life ; Enrico Coen.	21, 21
Chaisson, Eric; Epic of Evolution: Seven Ages of the Cosmos	21
Chambers, John; From Dust to Life: The Origin and Evolution of Our Solar System.	21, 21
Changing Energy: The Transition to a Sustainable Future ; John H. Perkins.	30
Chansigaud, Valérie; All about Birds: A Short Illustrated History of Ornithology.	21
Charles Darwin: The Power of Place ; Janet Browne.	20
Charles Darwin: Voyaging ; Janet Browne.	20
Cheating Cell, The: How Evolution Helps Us Understand and Treat Cancer ; Athena Aktipis.	19
Christiansen, Freddy Bugge; Theories of Population Variation in Genes and Genomes.	21
Chuckwalla Land: The Riddle of California's Desert ; David Rains Wallace.	34
Cicero, Carla; Sibling Species of Titmice in the Parus inornatus Complex (Aves: Paridae).	21
Clark, James S.; Statistical Computation for Environmental Sciences in R: Lab Manual for Models for Ecological Data	21
Clark, Stuart; The Sun Kings: The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began.	21
Cleveland, David A.; Balancing on a Planet: The Future of Food and Agriculture.	21, 21
Climate and Ecosystems ; David Schimel.	31
Climate and the Oceans ; Geoffrey K. Vallis.	33
Climate Change in California: Risk and Response ; Fredrich Kahrl.	26
Climate Change Science: A Primer for Sustainable Development ; John C. Mutter.	17
Coasts in Crisis: A Global Challenge ; Gary Griggs.	24
Coen, Enrico; Cells to Civilizations: The Principles of Change That Shape Life.	21, 21
Cohen, Steven; Sustainability Management: Lessons from and for New York City, America, and the Planet.	21
Cohen, Steven; The Sustainable City.	21, 21

Cole, Jonathan; Fair Science: Women in the Scientific Community.	21
Colinvaux, Paul A.; Why Big Fierce Animals Are Rare: An Ecologist's Perspective.	21, 21
Collier, Michael; A Land in Motion: California's San Andreas Fault.	21
Collins, Christopher; Paleopoetics: The Evolution of the Preliterate Imagination.	21
Columbia Guide to American Environmental History, The ; Carolyn Merchant.	28
Coming Famine, The: The Global Food Crisis and What We Can Do to Avoid It ; Julian Cribb.	22
Comins, Neil; Heavenly Errors: Misconceptions About the Real Nature of the Universe.	21
Comins, Neil; The Traveler's Guide to Space: For One-Way Settlers and Round-Trip Tourists.	21
Common Spiders of North America ; Richard A. Bradley	20
Complexity Theory for a Sustainable Future ; Jon Norberg	29
Concepts of Mass in Contemporary Physics and Philosophy ; Max Jammer.	26
Concise History of Solar and Stellar Physics, A ; Jean-Louis Tassoul.	27
Concrete Jungle: New York City and Our Last Best Hope for a Sustainable Future ; Niles Eldredge.	23
Conquest of Tuberculosis, The ; Selman A. Waksman.	33
Constant Fire, The: Beyond the Science vs. Religion Debate ; Adam Frank.	24
Contera, Sonia; Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology.	21
Control of Spacecraft and Aircraft ; Arthur E. Bryson Jr.	20
Cook, Ben; Drought: An Interdisciplinary Perspective.	21
Coplan, Karl; Live Sustainably Now: A Low-Carbon Vision of the Good Life.	21
Coral Whisperers: Scientists on the Brink ; Irus Braverman	20
Corballis, Michael C.; From Hand to Mouth: The Origins of Language.	21
Cordner, Alissa; Toxic Safety: Flame Retardants, Chemical Controversies, and Environmental Health.	21
Cornejo, Fernando; Seeds of Amazonian Plants.	21
Cosmic Cocktail, The: Three Parts Dark Matter ; Katherine Freese.	24, 24
Cosmic Web, The: Mysterious Architecture of the Universe ; J. Richard Gott.	24, 24
Cosmology's Century: An Inside History of Our Modern Understanding of the Universe ; P. J. E. Peebles.	30
Counter-Creationism Handbook, The ; Mark Isaak.	26
Craig, A. D.; How Do You Feel?: An Interoceptive Moment with Your Neurobiological Self.	21, 21
Creatures of Cain: The Hunt for Human Nature in Cold War America ; Erika Lorraine Milam.	28, 28
Crelinsten, Jeffrey; Einstein's Jury: The Race to Test Relativity	22
Cribb, Julian; The Coming Famine: The Global Food Crisis and What We Can Do to Avoid It.	22
Cryosphere, The ; Shawn J. Marshall.	28
Curious History of Relativity, The: How Einstein's Theory of Gravity Was Lost and Found Again ; Jean Eisenstaedt	23
Curvature of Spacetime, The: Newton, Einstein, and Gravitation ; Harald Fritzsch.	24
Dale, Gareth; Karl Polanyi: A Life on the Left.	22, 22
Dark Data: Why What You Don't Know Matters ; David J. Hand.	25

Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture ; R. Ford Denison.	22
Darwin's Spectre: Evolutionary Biology in the Modern World ; Michael R. Rose.	31
Darwin's Unfinished Symphony: How Culture Made the Human Mind ; Kevin N. Laland.	27, 27
Daston, Lorraine; Wonders and the Order of Nature 1150–1750	22
de Onís, Catalina M; Energy Islands: Metaphors of Power, Extractivism, and Justice in Puerto Rico.	22
de Waal, Frans B. M.; Bonobo: The Forgotten Ape.	22
de Waal, Frans; Primates and Philosophers: How Morality Evolved.	22
Dean, Cornelia; Against the Tide: The Battle for America's Beaches.	22
Deep Life: The Hunt for the Hidden Biology of Earth, Mars, and Beyond ; Tullis C. Onstott.	29, 29
Deffeyes, Kenneth S.; Hubbert's Peak: The Impending World Oil Shortage - New Edition.	22
Delicious: The Evolution of Flavor and How It Made Us Human ; Rob Dunn.	9
Denison, R. Ford; Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture.	22
DeSalle, Rob; Troublesome Science: The Misuse of Genetics and Genomics in Understanding Race.	22
Designing the Molecular World: Chemistry at the Frontier ; Philip Ball.	19
Desilva, Jeremy; A Most Interesting Problem: What Darwin's Descent of Man Got Right and Wrong about Human Evolution	6
d'Espagnat, Bernard; On Physics and Philosophy.	22
Devil in the Mountain: A Search for the Origin of the Andes ; Simon Lamb.	27
Dialogue Concerning the Two Chief World Systems, Ptolemaic and Copernican, Second Revised edition ; Galileo Galilei.	24
Dietz, Robert E., IV; Systematics and Biology of the Genus <i>Macrocne</i> Hübner (Lepidoptera: Ctenuchidae).	22
Different Kind of Animal, A: How Culture Transformed Our Species ; Robert Boyd.	20, 20
Different Nature, A: The Paradoxical World of Zoos and Their Uncertain Future ; David Hancocks.	25
digitalSTS: A Field Guide for Science & Technology Studies ; Janet Vertesi.	33
Dinar, Shlomi; International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries.	22
Dingus, Lowell; Barnum Brown: The Man Who Discovered <i>Tyrannosaurus rex</i>.	22
Dinosaur Facts and Figures: The Sauropods and Other Sauropodomorphs ; Rubén Molina-Pérez.	29
Dinosaur Facts and Figures: The Theropods and Other Dinosauriformes ; Rubén Molina-pérez.	29
Dinosaur Odyssey: Fossil Threads in the Web of Life ; Scott D. Sampson.	31
Dinosaur Tracks and Other Fossil Footprints of the Western United States ; Martin Lockley.	27
Dirac, P. A.M.; General Theory of Relativity.	22
Disaster Deferred: A New View of Earthquake Hazards in the New Madrid Seismic Zone ; Seth Stein.	32, 32
Discoverers of the Universe: William and Caroline Herschel ; Michael Hoskin.	25
Discovery of the Germ, The: Twenty Years That Transformed the Way We Think About Disease ; John Waller	34
Distributed Control of Robotic Networks: A Mathematical Approach to Motion Coordination Algorithms ; Francesco Bullo.	20

Disturbing the Solar System: Impacts, Close Encounters, and Coming Attractions ; Alan E. Rubin.	31
DNA: A Graphic Guide to the Molecule that Shook the World ; Israel Rosenfield.	31
Do Animals Think? ; Clive D. L. Wynne.	34
Do Not Erase: Mathematicians and Their Chalkboards ; Jessica Wynne.	5
Do Zombies Dream of Undead Sheep?: A Neuroscientific View of the Zombie Brain ; Timothy Verstynen.	33, 33
Dobzhansky, Theodosius; Human Culture: A Moment in Evolution.	22
Dogs: Their Fossil Relatives and Evolutionary History ; Xiaoming Wang.	34
Doherty, Peter; The Beginner's Guide to Winning the Nobel Prize: Advice for Young Scientists.	22, 22
Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise ; InterAcademy Partnership	25
Dolphin Societies: Discoveries and Puzzles	30
Douglas, Angela E; Fundamentals of Microbiome Science: How Microbes Shape Animal Biology.	22, 22
Douglas, Angela E; The Symbiotic Habit.	22
Dow, Kirstin; The Atlas of Climate Change: Mapping the World's Greatest Challenge.	22
Dowling, John E.; The Great Brain Debate: Nature or Nurture?	22
Downie, Neil A.; The Ultimate Book of Saturday Science: The Very Best Backyard Science Experiments You Can Do Yourself	22
Downie, Neil A.; Vacuum Bazookas, Electric Rainbow Jelly, and 27 Other Saturday Science Projects.	22
Dragonflies and Damselflies of California ; Timothy D. Manolis.	28
Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition ; Chris Impey.	25
Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration ; Chris Impey.	25
Drought: An Interdisciplinary Perspective ; Ben Cook.	21
Drunken Monkey, The: Why We Drink and Abuse Alcohol ; Robert Dudley.	22
Dudley, Robert; The Drunken Monkey: Why We Drink and Abuse Alcohol.	22
Dunbar-Hester, Christina; Hacking Diversity: The Politics of Inclusion in Open Technology Cultures.	22, 22
Dunlap, Thomas; Saving America's Wildlife: Ecology and the American Mind, 1850-1990.	22
Dunn, Rob; Delicious: The Evolution of Flavor and How It Made Us Human.	9
Dunwell, Frances; Hudson River Highlands.	22
Durham, Frank; Frame of the Universe: A History of Physical Cosmology.	22
Dynamics of Dinosaurs and Other Extinct Giants ; R. McNeill Alexander.	19
Eakin, Richard M.; Vertebrate Embryology: A Laboratory Manual.	22
Earth Machine, The: The Science of a Dynamic Planet ; Edmond Mathez.	28
Earthshaking Science: What We Know (and Don't Know) about Earthquakes ; Susan Elizabeth Hough.	25
Ebert, David; Sharks, Rays, and Chimaeras of California.	22
Echo of the Big Bang ; Michael D. Lemonick.	27
Ecology, the Ascendent Perspective ; Robert E. Ulanowicz	33
Edge of Objectivity, The: An Essay in the History of Scientific Ideas ; Charles Coulston Gillispie.	24

Edmonds, A. R.; Angular Momentum in Quantum Mechanics	22
Ehrlich, Robert; Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming	22
Ehrlich, Robert; Nine Crazy Ideas in Science: A Few Might Even Be True.	22
Ehrlich, Robert; Turning the World Inside Out and 174 Other Simple Physics Demonstrations.	22
Ehrlich, Robert; Why Toast Lands Jelly-Side Down: Zen and the Art of Physics Demonstrations.	23
Eight Preposterous Propositions: From the Genetics of Homosexuality to the Benefits of Global Warming; Robert Ehrlich.	22
Einstein and Religion: Physics and Theology; Max Jammer	26
Einstein and the Quantum: The Quest of the Valiant Swabian; A. Douglas Stone.	32, 32
Einstein Encyclopedia, An; Alice Calaprice.	20
Einstein for the 21st Century: His Legacy in Science, Art, and Modern Culture; Peter L. Galison.	24
Einstein in Bohemia; Michael D. Gordin.	24
Einstein on Einstein: Autobiographical and Scientific Reflections; Jürgen Renn.	31
Einstein Was Right: The Science and History of Gravitational Waves.	20
Einstein, Albert; Albert Einstein, Mileva Maric: The Love Letters	23
Einstein, Albert; Albert Einstein, The Human Side: Glimpses from His Archives.	23
Einstein, Albert; Einstein's Miraculous Year: Five Papers That Changed the Face of Physics.	23
Einstein, Albert; Relativity: The Special and the General Theory - 100th Anniversary Edition.	16, 23
Einstein, Albert; The Meaning of Relativity: Including the Relativistic Theory of the Non-Symmetric Field - Fifth Edition	23
Einstein, Albert; The Travel Diaries of Albert Einstein: The Far East, Palestine, and Spain, 1922 - 1923.	23
Einstein, Albert; The Ultimate Quotable Einstein.	16, 23
Einstein: A Hundred Years of Relativity; Andrew Robinson	31
Einstein's Jury: The Race to Test Relativity; Jeffrey Crellin.	22
Einstein's Miraculous Year: Five Papers That Changed the Face of Physics; Albert Einstein.	23
Eisenstaedt, Jean; The Curious History of Relativity: How Einstein's Theory of Gravity Was Lost and Found Again.	23
Elbroch, Lawrence Mark; Field Guide to Animal Tracks and Scat of California.	23
Eldredge, Niles; Concrete Jungle: New York City and Our Last Best Hope for a Sustainable Future.	23
Eldredge, Niles; Eternal Ephemera: Adaptation and the Origin of Species from the Nineteenth Century Through Punctuated Equilibria and Beyond.	23, 23
Eldredge, Niles; Life in the Balance: Humanity and the Biodiversity Crisis.	23
Emmeche, Claus; The Garden in the Machine: The Emerging Science of Artificial Life.	23
Emmons, Louise H.; Tupai: A Field Study of Bornean Treeshrews.	23
Encounters with Einstein: And Other Essays on People, Places, and Particles; Werner Heisenberg.	25
Endless Novelty: Specialty Production and American Industrialization, 1865-1925; Philip Scranton.	32
Energy Islands: Metaphors of Power, Extractivism, and Justice in Puerto Rico; Catalina M de Onís.	22

Engineering Dynamics: A Comprehensive Introduction; N. Jeremy Kasdin.	26
Enhancing Evolution: The Ethical Case for Making Better People; John Harris.	25
Eocene Thunder Mountain Flora of Central Idaho, The; Daniel I. Axelrod.	19
Epic of Evolution: Seven Ages of the Cosmos; Eric J. Chaisson.	21
Erwin, Douglas H.; Extinction: How Life on Earth Nearly Ended 250 Million Years Ago - Updated Edition.	23
Estes, James A.; Serendipity: An Ecologist's Quest to Understand Nature.	23, 23
Estes, Richard D.; The Gnu's World: Serengeti Wildebeest Ecology and Life History.	23
Eternal Darkness, The: A Personal History of Deep-Sea Exploration; Robert D. Ballard.	19
Eternal Ephemera: Adaptation and the Origin of Species from the Nineteenth Century Through Punctuated Equilibria and Beyond; Niles Eldredge.	23, 23
Ethical Engineer, The: Contemporary Concepts and Cases; Robert McGinn.	28, 28
Evolution and the Emergent Self: The Rise of Complexity and Behavioral Versatility in Nature; Raymond L. Neubauer	29
Evolution of Knowledge, The: Rethinking Science for the Anthropocene; Jürgen Renn.	31
Evolution vs. Creationism: An Introduction; Eugenie C. Scott.	32
Evolution, Literature, and Film: A Reader.	20
Evolution: The History of an Idea, 25th Anniversary Edition, With a New Preface; Peter J. Bowler.	20
Evolution: What the Fossils Say and Why It Matters; Donald R. Prothero.	30, 30
Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (Loxia curvirostra) Complex; Jeffrey G. Groth.	24
Evolutionary Dynamics of the Pocket Gopher Thomomys bottae, with Emphasis on California Populations, The; James L. Patton.	30
Evolution's Bite: A Story of Teeth, Diet, and Human Origins ; Peter S. Ungar.	33
Evolution's Bite: A Story of Teeth, Diet, and Human Origins ; Peter Ungar.	33
Evolution's Rainbow: Diversity, Gender, and Sexuality in Nature and People; Joan Roughgarden.	31
Evolving Brains, Emerging Gods: Early Humans and the Origins of Religion; E. Fuller Torrey.	33
Evolving Eden: An Illustrated Guide to the Evolution of the African Large-Mammal Fauna; Alan Turner.	33
Exploding Stars and Invisible Planets: The Science of What's Out There; Fred Watson.	34
Extended Heredity: A New Understanding of Inheritance and Evolution; Russell Bonduriansky.	20, 20
Extinction: How Life on Earth Nearly Ended 250 Million Years Ago - Updated Edition; Douglas H. Erwin.	23
Extravagant Universe, The: Exploding Stars, Dark Energy, and the Accelerating Cosmos; Robert P. Kirshner.	26
Extreme Life of the Sea, The; Stephen R. Palumbi.	29, 30
Eye and Brain: The Psychology of Seeing - Fifth Edition; Richard L. Gregory.	16
Eye on the Sky: Lick Observatory's First Century; Donald E. Osterbrock.	29
Facing Climate Change: An Integrated Path to the Future; Jeffrey T. Kiehl.	26
Fair Science: Women in the Scientific Community; Jonathan R. Cole.	21

Fairbairn, Daphne J.; Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom	23, 23
Falkowski, Paul G.; Life's Engines: How Microbes Made Earth Habitable	23, 23
Fascination for Fish, A: Adventures of an Underwater Pioneer ; David C. Powell.	30
Fashion, Faith, and Fantasy in the New Physics of the Universe ; Roger Penrose.	14, 30
Fear, Wonder, and Science in the New Age of Reproductive Biotechnology ; Scott Gilbert.	24
Fearful Symmetry: The Search for Beauty in Modern Physics ; A. Zee.	34
Feedback Systems: An Introduction for Scientists and Engineers, Second Edition ; Karl Johan Åström.	19
Feke, Jacqueline; Ptolemy's Philosophy: Mathematics as a Way of Life	23, 23
Feynman, Richard P.; QED: The Strange Theory of Light and Matter	23
Feynman, Richard P.; The Quotable Feynman	23
Field Effect in Semiconductor-Electrolyte Interfaces: Application to Investigations of Electronic Properties of Semiconductor Surfaces ; Pavel P. Konorov.	26
Field Guide to Amphibians and Reptiles of the San Diego Region ; Jeff Lemm.	27
Field Guide to Animal Tracks and Scat of California ; Lawrence Mark Elbroch.	23
Field Guide to Birds of the Northern California Coast ; Rich Stallcup.	32
Field Guide to Butterflies of the San Francisco Bay and Sacramento Valley Regions ; Arthur Shapiro.	32
Field Guide to California Agriculture ; Paul Starrs.	32
Field Guide to Climate Anxiety, A: How to Keep Your Cool on a Warming Planet ; Sarah Jaquette Ray.	18
Field Guide to Owls of California and the West ; Hans J. Peeters.	30
Fish Ecology, Evolution, and Exploitation: A New Theoretical Synthesis ; Ken H Andersen.	19
Fish: An Enthusiast's Guide ; Peter B. Moyle.	29
Fisher, Brian L.; Ants of North America: A Guide to the Genera	23
Fisher, David E.; The Birth of the Earth: A Wanderlied Through Space, Time, and the Human Imagination	23
Fisher, Richard V.; Out of the Crater: Chronicles of a Volcanologist	23
Fisher, Richard V.; Volcanoes: Crucibles of Change	23
Fishes and the Forest, The: Explorations in Amazonian Natural History ; Michael Goulding.	24
Fishes: A Guide to Their Diversity ; Philip A. Hastings.	25
Fitch, Walter; The Three Failures of Creationism: Logic, Rhetoric, and Science	23
Fixing the Sky: The Checkered History of Weather and Climate Control ; James Rodger Fleming.	23, 23
Flame and Fortune in the American West: Urban Development, Environmental Change, and the Great Oakland Hills Fire ; Gregory L. Simon.	32
Fleissner, Erwin; Vital Harmonies: Molecular Biology and Our Shared Humanity	23
Fleming, James; Fixing the Sky: The Checkered History of Weather and Climate Control	23, 23
Fleming, Sean W.; Where the River Flows: Scientific Reflections on Earth's Waterways	23, 23
Flexner, Abraham; The Usefulness of Useless Knowledge	16
Fly Me to the Moon: An Insider's Guide to the New Science of Space Travel ; Edward Belbruno.	19
Flying Dinosaurs: How Fearsome Reptiles Became Birds ; John Pickrell.	30

Food's Frontier: The Next Green Revolution ; Richard Manning.	27
Forbes, Scott; A Natural History of Families	24
Forensic Architecture: Violence at the Threshold of Detectability ; Eyal Weizman.	34, 34
Form of Becoming, The: Embryology and the Epistemology of Rhythm, 1760–1830 ; Janina Wellmann	34
Formative Years of Relativity, The: The History and Meaning of Einstein's Princeton Lectures ; Hanoch Gutfreund.	24
Forms of Becoming: The Evolutionary Biology of Development ; Alessandro Minelli.	28
Four Revolutions in the Earth Sciences: From Heresy to Truth ; James Lawrence Powell.	30
Fradkin, Philip L.; Magnitude 8: Earthquakes and Life along the San Andreas Fault	24
Frame of the Universe: A History of Physical Cosmology ; Frank Durham.	22
Francis, Richard C.; Why Men Won't Ask for Directions: The Seductions of Sociobiology	24
Frank, Adam; The Constant Fire: Beyond the Science vs. Religion Debate	24
Frebel, Anna; Searching for the Oldest Stars: Ancient Relics from the Early Universe	24, 24
Freese, Katherine; The Cosmic Cocktail: Three Parts Dark Matter	24, 24
Fritzsche, Harald; The Curvature of Spacetime: Newton, Einstein, and Gravitation	24
From Dust to Life: The Origin and Evolution of Our Solar System ; John Chambers.	21, 21
From Genesis to Genetics: The Case of Evolution and Creationism ; John A. Moore.	29
From Hand to Mouth: The Origins of Language ; Michael C. Corballis.	21
Frozen Earth: The Once and Future Story of Ice Ages ; Doug Macdougall.	27
Fuller, Steve; Kuhn vs. Popper: The Struggle for the Soul of Science	24
Fundamentals of Microbiome Science: How Microbes Shape Animal Biology ; Angela E Douglas.	22, 22
Future of the Brain, The: Essays by the World's Leading Neuroscientists	28
Galilei, Galileo; Dialogue Concerning the Two Chief World Systems, Ptolemaic and Copernican, Second Revised edition	24
Galilei, Galileo; Galileo on the World Systems: A New Abridged Translation and Guide	23
Galileo Affair, The: A Documentary History	23
Galileo on the World Systems: A New Abridged Translation and Guide ; Galileo Galilei.	23
Galison, Peter L.; Einstein for the 21st Century: His Legacy in Science, Art, and Modern Culture	24
Garden in the Machine, The: The Emerging Science of Artificial Life ; Claus Emmeche.	23
Garden of Ediacara, The: Discovering the First Complex Life ; Mark A. S. Mcmenamin.	28
Garrett, Brandon L.; Autopsy of a Crime Lab: Exposing the Flaws in Forensics	24
General Theory of Relativity ; P. A.M. Dirac.	22
Genes and DNA: A Beginner's Guide to Genetics and Its Applications ; Charlotte K. Omoto.	29
Genes, Brains, and Human Potential: The Science and Ideology of Intelligence ; Ken Richardson.	31
Genetic Justice: DNA Data Banks, Criminal Investigations, and Civil Liberties ; Sheldon Krinsky.	26
Genial Gene, The: Deconstructing Darwinian Selfishness ; Joan Roughgarden.	31

Geniez, Philippe; Snakes of Europe, North Africa and the Middle East: A Photographic Guide.	24
Geology of the Sierra Nevada ; Mary Hill.	25
Germ Wars: The Politics of Microbes and America's Landscape of Fear ; Melanie Armstrong.	19
Gilbert, Scott; Fear, Wonder, and Science in the New Age of Reproductive Biotechnology.	24
Gilliam, Harold; Weather of the San Francisco Bay Region	24
Gillispie, Charles Coulston; The Edge of Objectivity: An Essay in the History of Scientific Ideas.	24
Global and the Intimate, The: Feminism in Our Time	30
Global Carbon Cycle, The ; David Archer.	19
Global Climate Change and California: Potential Impacts and Responses	26
Gnu's World, The: Serengeti Wildebeest Ecology and Life History ; Richard D. Estes.	23
Godfrey-Smith, Peter; Philosophy of Biology.	16
Goodstein, David; On Fact and Fraud: Cautionary Tales from the Front Lines of Science.	24
Goodwin, Brian; How the Leopard Changed Its Spots: The Evolution of Complexity.	24
Gordin, Michael D.; A Well-Ordered Thing: Dmitrii Mendeleev and the Shadow of the Periodic Table, Revised Edition.	24
Gordin, Michael D.; Einstein in Bohemia.	24
Gordon, Deborah M.; Ant Encounters: Interaction Networks and Colony Behavior.	24
Gornitz, Vivien; Vanishing Ice: Glaciers, Ice Sheets, and Rising Seas.	24
Gott, J. Richard; The Cosmic Web: Mysterious Architecture of the Universe.	24, 24
Gould, James L.; Nature's Compass: The Mystery of Animal Navigation.	24
Goulding, Michael; The Fishes and the Forest: Explorations in Amazonian Natural History.	24
Graham, Daniel; An Internet in Your Head: A New Paradigm for How the Brain Works.	3
Grand Canyon For Sale: Public Lands versus Private Interests in the Era of Climate Change ; Stephen Nash.	29
Grand Contraption, The: The World as Myth, Number, and Chance ; David Park.	30
Grant, Don; Super Polluters: Tackling the World's Largest Sites of Climate-Disrupting Emissions.	24
Grant, Peter R.; How and Why Species Multiply: The Radiation of Darwin's Finches.	24
Gray, Margaret; Labor and the Locavore: The Making of a Comprehensive Food Ethic.	24, 24
Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved ; Kenneth Catania.	16
Great Brain Debate, The: Nature or Nurture? ; John E. Dowling.	22
Great Formal Machinery Works, The: Theories of Deduction and Computation at the Origins of the Digital Age ; Jan von Plato.	33
Great Ocean Conveyor, The: Discovering the Trigger for Abrupt Climate Change ; Wally Broecker.	20
Green Marble, The: Earth System Science and Global Sustainability ; David Turner.	33
Green Phoenix, The: A History of Genetically Modified Plants ; Paul Lurquin.	27
Greene, Harry W.; Snakes: The Evolution of Mystery in Nature	24
Greene, Harry W.; Tracks and Shadows: Field Biology as Art	24, 24
Greenhouse of the Dinosaurs: Evolution, Extinction, and the Future of Our Planet ; Donald R. Prothero.	30

Gregory, Richard L.; Eye and Brain: The Psychology of Seeing - Fifth Edition.	16
Griggs, Gary; Coasts in Crisis: A Global Challenge.	24
Groth, Jeffrey G.; Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (<i>Loxia curvirostra</i>) Complex.	24
Gruber, Nicolas; Seasonal Carbon Cycling in the Sargasso Sea Near Bermuda.	24
Gubser, Steven S.; The Little Book of Black Holes.	17
Gubser, Steven S.; The Little Book of String Theory.	17
Gutfreund, Hanoch; The Formative Years of Relativity: The History and Meaning of Einstein's Princeton Lectures.	24
Gutfreund, Hanoch; The Road to Relativity: The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece	24, 24
Guthman, Julie; Agrarian Dreams: The Paradox of Organic Farming in California.	25
Guyer, Craig; Amphibians and Reptiles of La Selva, Costa Rica, and the Caribbean Slope: A Comprehensive Guide.	25
Hacking Diversity: The Politics of Inclusion in Open Technology Cultures ; Christina Dunbar-Hester.	22, 22
Haigh, Joanna D.; The Sun's Influence on Climate.	25
Haldane, John Burdon; The Causes of Evolution.	25
Hallett, Mark; On the Prowl: In Search of Big Cat Origins.	25
Hamilton, Douglas; Building Physical Intuition.	25
Hancocks, David; A Different Nature: The Paradoxical World of Zoos and Their Uncertain Future.	25
Hand, David J.; Dark Data: Why What You Don't Know Matters	25
Hand, Kevin; Alien Oceans: The Search for Life in the Depths of Space.	25
Handbook of Citizen Science in Ecology and Conservation	27
Hands ; John Napier.	29
Hanson, Elizabeth; Animal Attractions: Nature on Display in American Zoos.	25
Hard to Break: Why Our Brains Make Habits Stick ; Russell A. Poldrack.	2
Harris, John; Enhancing Evolution: The Ethical Case for Making Better People.	25
Harvell, Drew; A Sea of Glass: Searching for the Blaschkas' Fragile Legacy in an Ocean at Risk.	25, 25
Harvell, Drew; Ocean Outbreak: Confronting the Rising Tide of Marine Disease.	25, 25
Hastings, Philip A.; Fishes: A Guide to Their Diversity.	25
Hawking, Stephen; The Nature of Space and Time.	17
Heard, Stephen B.; The Scientist's Guide to Writing: How to Write More Easily and Effectively throughout Your Scientific Career.	25
Heart of Darkness: Unraveling the Mysteries of the Invisible Universe ; Jeremiah P. Ostriker.	29, 29
Heavenly Errors: Misconceptions About the Real Nature of the Universe ; Neil F. Comins.	21
Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe ; James B. Kaler	26
Heiken, Grant; The Seven Hills of Rome: A Geological Tour of the Eternal City.	25
Heisenberg, Werner; Encounters with Einstein: And Other Essays on People, Places, and Particles.	25
Helmreich, Stefan; Silicon Second Nature: Culturing Artificial Life in a Digital World, Updated With a New Preface.	25
Henrich, Joseph; The Secret of Our Success: How Culture Is Driving Human Evolution, Domesticating Our Species, and Making Us Smarter.	25

Heretic in Darwin's Court, The: The Life of Alfred Russel Wallace ; Ross A. Slotten.	32, 32
Hess, David J.; Science and Technology in a Multicultural World: The Cultural Politics of Facts and Artifacts.	25
Hidden Dimensions: The Unification of Physics and Consciousness ; B. Alan Wallace.	34
Hidden Worlds: Hunting for Quarks in Ordinary Matter ; Timothy Paul Smith.	32
Hierarchy Theory: A Vision, Vocabulary, and Epistemology ; Valerie Ahl.	19
Hiesinger, Peter Robin; The Self-Assembling Brain: How Neural Networks Grow Smarter.	2
Higgins, Richard; Thoreau and the Language of Trees.	25
Hill, Mary; Geology of the Sierra Nevada.	25
History of Biology, A ; Michel Morange.	9
History of Magic and Experimental Science: Fourteenth and Fifteenth Centuries, Volume 3 ; Lynn Thorndike.	33
History of Magic and Experimental Science: Fourteenth and Fifteenth Centuries, Volume 4 ; Lynn Thorndike.	33
History of Magic and Experimental Science: Seventeenth Century, Volume 7 ; Lynn Thorndike.	33
History of Magic and Experimental Science: Seventeenth Century, Volume 8 ; Lynn Thorndike.	33
History of Magic and Experimental Science: Sixteenth Century, Volume 5 ; Lynn Thorndike.	33
History of Magic and Experimental Science: Sixteenth Century, Volume 6 ; Lynn Thorndike.	33
History of Magic and Experimental Science: The First Thirteen Centuries, Volume 1 ; Lynn Thorndike.	33
History of Magic and Experimental Science: The First Thirteen Centuries, Volume 2 ; Lynn Thorndike.	33
Hobbs, Carl; The Beach Book: Science of the Shore.	25
Hodges, Andrew; Alan Turing: The Enigma: The Book That Inspired the Film The Imitation Game - Updated Edition.	25
Hoeppe, Götz; Why the Sky Is Blue: Discovering the Color of Life.	25
Hoffmann, Roald; The Same and Not the Same.	25
Homology, Genes, and Evolutionary Innovation ; Günter P. Wagner.	33
Honeybee Democracy ; Thomas D. Seeley.	32
Hooper, Dan; At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds.	13, 25
Hoskin, Michael; Discoverers of the Universe: William and Caroline Herschel.	25
Hot Carbon: Carbon-14 and a Revolution in Science ; John F. Marra.	28
Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable ; Paul J. Nahin.	29
Hough, Susan Elizabeth; Earthshaking Science: What We Know (and Don't Know) about Earthquakes.	25
Hough, Susan Elizabeth; Predicting the Unpredictable: The Tumultuous Science of Earthquake Prediction.	25
Hough, Susan Elizabeth; Richter's Scale: Measure of an Earthquake, Measure of a Man.	25, 25
How and Why Species Multiply: The Radiation of Darwin's Finches ; Peter R. Grant.	24
How Did the First Stars and Galaxies Form? ; Abraham Loeb.	27
How Do You Feel?: An Interoceptive Moment with Your Neurobiological Self ; A. D. Craig.	21, 21
How Do You Find an Exoplanet? ; John Asher Johnson.	26
How Evolution Shapes Our Lives: Essays on Biology and Society	27
How Men Age: What Evolution Reveals about Male Health and Mortality ; Richard G. Bribiescas.	20, 20
How Old Is the Universe? ; David A. Weintraub.	34

How the Leopard Changed Its Spots: The Evolution of Complexity ; Brian Goodwin.	24
How to Do Ecology: A Concise Handbook - Second Edition ; Richard Karban.	26
How to Feel: The Science and Meaning of Touch ; Sushma Subramanian.	3
How to Find a Habitable Planet ; James Kasting.	26
How to Succeed in Academics, 2nd edition ; Linda L. McCabe.	28
How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future ; David Hu.	17, 25
Hu, David; How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future.	17, 25
Hubbert's Peak: The Impending World Oil Shortage - New Edition ; Kenneth S. Deffeyes.	22
Hudson River Highlands ; Frances F. Dunwell.	22
Human Culture: A Moment in Evolution ; Theodosius Dobzhansky.	22
Human Scaffold, The: How Not to Design Your Way Out of a Climate Crisis ; Josh Berson.	20
Humphries, Mark; The Spike: An Epic Journey Through the Brain in 2.1 Seconds.	1
Hunter, Geoffrey; Metalogic: An Introduction to the Metatheory of Standard First Order Logic.	25
Hunting Apes, The: Meat Eating and the Origins of Human Behavior ; Craig B. Stanford.	32
Impey, Chris; Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration.	25
Impey, Chris; Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition	25
Impossible Engineering: Technology and Territoriality on the Canal du Midi ; Chandra Mukerji.	29, 29
In Praise of Simple Physics: The Science and Mathematics behind Everyday Questions ; Paul J. Nahin.	17, 29
In the Beginning Was the Worm: Finding the Secrets of Life in a Tiny Hermaphrodite ; Andrew Brown.	20
In the Shadow of the Bomb: Oppenheimer, Bethe, and the Moral Responsibility of the Scientist ; Silvan S. Schweber	32
Ingersoll, Andrew; Planetary Climates.	25
Innate: How the Wiring of Our Brains Shapes Who We Are ; Kevin J. Mitchell.	17, 28
Insects, The ; Uri Lanham.	27
InterAcademy Partnership; Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise.	25
International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries ; Shlomi Dinar	22
Internet in Your Head, An: A New Paradigm for How the Brain Works ; Daniel Graham.	3
Introduction to Air in California ; David Carle.	21
Introduction to Horned Lizards of North America ; Wade C. Sherbrooke.	32
Introduction to Water in California ; David Carle.	21
Invisible in the Storm: The Role of Mathematics in Understanding Weather ; Ian Roulstone.	31
Invisible World, The: Early Modern Philosophy and the Invention of the Microscope ; Catherine Wilson.	34
Is Pluto a Planet?: A Historical Journey through the Solar System ; David A. Weintraub.	34
Is the Temperature Rising?: The Uncertain Science of Global Warming ; S. George Philander.	30
Isaak, Mark; The Counter-Creationism Handbook.	26
It's About Time: Understanding Einstein's Relativity ; N. David Mermin.	13, 28

Jammer, Max; Concepts of Mass in Contemporary Physics and Philosophy.	26
Jammer, Max; Einstein and Religion: Physics and Theology	26
Jayawardhana, Ray; Strange New Worlds: The Search for Alien Planets and Life beyond Our Solar System.	26
Johnson, John Asher; How Do You Find an Exoplanet?.	26
Jones, Craig H.; The Mountains That Remade America: How Sierra Nevada Geology Impacts Modern Life.	26, 26
Jorgensen, Timothy J.; Strange Glow: The Story of Radiation	17, 26
Journey of Man, The: A Genetic Odyssey; Spencer Wells	34
Jouzel, Jean; The White Planet: The Evolution and Future of Our Frozen World.	26, 26
Juvinett, Ashley; So You Want to Be a Neuroscientist?: An Honest Account of Life as a Scientist.	5
Kahrl, Fredrich; Climate Change in California: Risk and Response.	26
Kaler, James B.; Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe.	26
Kandel, Robert; Water from Heaven: The Story of Water from the Big Bang to the Rise of Civilization, and Beyond.	26
Kaplan, Eugene H.; Sensuous Seas: Tales of a Marine Biologist.	26
Karban, Richard; How to Do Ecology: A Concise Handbook - Second Edition.	26
Karl Polanyi: A Life on the Left; Gareth Dale.	22, 22
Kasdin, N. Jeremy; Engineering Dynamics: A Comprehensive Introduction.	26
Kasting, James; How to Find a Habitable Planet.	26
Keller, Catherine; Political Theology of the Earth: Our Planetary Emergency and the Struggle for a New Public.	26
Keller, Evelyn Fox; Refiguring Life: Metaphors of Twentieth-Century Biology.	26
Kennefick, Daniel; No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity.	17, 26
Kernighan, Brian W.; Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security.	26
Kernighan, Brian W.; Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security, Second Edition.	12, 26
Key to Newton's Dynamics, The: The Kepler Problem and the Principia; J. Bruce Brackenridge.	20
Kiehl, Jeffrey; Facing Climate Change: An Integrated Path to the Future.	26
Kinder, Jesse M.; A Student's Guide to Python for Physical Modeling: Updated Edition.	26
Kirshner, Robert P.; The Extravagant Universe: Exploding Stars, Dark Energy, and the Accelerating Cosmos.	26
Klauber, Laurence M.; Rattlesnakes: Their Habits, Life Histories, and Influence on Mankind, Abridged edition.	26
Klotz, Leidy; Sustainability through Soccer: An Unexpected Approach to Saving Our World.	26
Knoll, Andrew H.; Life on a Young Planet: The First Three Billion Years of Evolution on Earth - Updated Edition.	17
Konorov, Pavel P.; Field Effect in Semiconductor-Electrolyte Interfaces: Application to Investigations of Electronic Properties of Semiconductor Surfaces.	26
Krimsky, Sheldon; Genetic Justice: DNA Data Banks, Criminal Investigations, and Civil Liberties.	26
Krimsky, Sheldon; Stem Cell Dialogues: A Philosophical and Scientific Inquiry Into Medical Frontiers.	26, 26
Kruckeberg, Arthur R.; California Serpentes: Flora, Vegetation, Geology, Soils, and Management Problems.	26

Kuhn vs. Popper: The Struggle for the Soul of Science; Steve Fuller.	24
Kurtén, Björn; Before the Indians.	26
Kurtén, Björn; Not from the Apes: A History of Man's Origins and Evolution.	27
Kurtén, Björn; The Cave Bear Story: Life and Death of a Vanished Animal.	26
Labor and the Locavore: The Making of a Comprehensive Food Ethic; Margaret Gray.	24, 24
Labor and the State in Egypt: Workers, Unions, and Economic Restructuring; Marsha P Posusney.	30
LaFollette, Marcel C.; Stealing Into Print: Fraud, Plagiarism, and Misconduct in Scientific Publishing.	27
Laland, Kevin N.; Darwin's Unfinished Symphony: How Culture Made the Human Mind.	27, 27
Lamb, Simon; Devil in the Mountain: A Search for the Origin of the Andes.	27
Land in Motion, A: California's San Andreas Fault; Michael Collier.	21
Land of Wondrous Cold: The Race to Discover Antarctica and Unlock the Secrets of Its Ice; Gillen D'Arcy Wood.	34
Langacker, Paul; Can the Laws of Physics Be Unified?.	27
Langville, Amy N.; Who's #1?: The Science of Rating and Ranking.	27, 27
Lanham, Url; The Insects.	27
Laudan, Larry; Progress and Its Problems: Towards a Theory of Scientific Growth.	27
Le Bihan, Denis; Looking Inside the Brain: The Power of Neuroimaging.	27
Lemm, Jeff; Field Guide to Amphibians and Reptiles of the San Diego Region.	27
Lemonick, Michael D.; Echo of the Big Bang.	27
Leonhard Euler: Mathematical Genius in the Enlightenment; Ronald S. Calinger.	21
Leopold, A. Starker; The California Quail.	27
Leviathan and the Air-Pump: Hobbes, Boyle, and the Experimental Life; Steven Shapin.	32
Levine, Alexander; Living Matter: Seeking New Physics in the Biological World.	27
Levy, David H.; Shoemaker by Levy: The Man Who Made an Impact.	27
Lewis, Martin W.; The Myth of Continents: A Critique of Metageography.	27
Lieberman, Philip; The Theory That Changed Everything: "On the Origin of Species" as a Work in Progress.	27, 27
Lieberman, Philip; The Unpredictable Species: What Makes Humans Unique.	27
Life as It Is: Biology for the Public Sphere; William F. Loomis.	27
Life in the Balance: Humanity and the Biodiversity Crisis; Niles Eldredge.	23
Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life; Robert Rosen.	31
Life on a Young Planet: The First Three Billion Years of Evolution on Earth - Updated Edition; Andrew H. Knoll.	17
Life on Mars: What to Know Before We Go; David A. Weintraub.	18, 34
Life's Engines: How Microbes Made Earth Habitable; Paul G. Falkowski.	23, 23
Life's Origin: The Beginnings of Biological Evolution.	32
Lise Meitner: A Life in Physics; Ruth Lewin Sime.	32
Little Book of Black Holes, The; Steven S. Gubser.	17
Little Book of Cosmology, The; Lyman Page.	15
Little Book of String Theory, The; Steven S. Gubser.	17
Live Long and Evolve: What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds; Mohamed A. F. Noor.	18, 29

Live Sustainably Now: A Low-Carbon Vision of the Good Life; Karl Coplan.	21
Living Matter: Seeking New Physics in the Biological World; Alexander Levine.	27
Lizards: Windows to the Evolution of Diversity; Eric P. Pianka.	30
Locked in Time: Animal Behavior Unearthed in 50 Extraordinary Fossils; Dean R. Lomax.	8
Lockley, Martin; Dinosaur Tracks and Other Fossil Footprints of the Western United States.	27
Loeb, Abraham; How Did the First Stars and Galaxies Form?	27
Lomax, Dean R.; Locked in Time: Animal Behavior Unearthed in 50 Extraordinary Fossils.	8
Long Thaw, The: How Humans Are Changing the Next 100,000 Years of Earth's Climate; David Archer.	19
Looking Inside the Brain: The Power of Neuroimaging; Denis Le Bihan.	27
Loomis, William F.; Life as It Is: Biology for the Public Sphere	27
Lorenz, Ralph; Titan Unveiled: Saturn's Mysterious Moon Explored.	27
Lott, Dale F.; American Bison: A Natural History.	27
Low, Bobbi S.; Why Sex Matters: A Darwinian Look at Human Behavior - Revised Edition.	27
Loxton, Daniel; Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids.	17, 27
Lurquin, Paul; The Green Phoenix: A History of Genetically Modified Plants.	27
Lurquin, Paul; The Origins of Life and the Universe.	27
Maddougall, Doug; Frozen Earth: The Once and Future Story of Ice Ages.	27
Maddougall, Doug; Nature's Clocks: How Scientists Measure the Age of Almost Everything.	27
Maddougall, Doug; Why Geology Matters: Decoding the Past, Anticipating the Future.	27
Madhouse Effect, The: How Climate Change Denial Is Threatening Our Planet, Destroying Our Politics, and Driving Us Crazy; Michael E. Mann.	17, 27
Magnitude 8: Earthquakes and Life along the San Andreas Fault; Philip L. Fradkin.	24
Mammalian Fauna of the Judith River Formation (Late Cretaceous, Judithian), Northcentral Montana; Marisol Montellano.	29
Mammoths, Sabertooths, and Hominids: 65 Million Years of Mammalian Evolution in Europe; Jordi Agustí.	19
Man Discovers the Galaxies; Richard Berendzen.	20
Manabe, Syukuro; Beyond Global Warming: How Numerical Models Revealed the Secrets of Climate Change.	27, 27
Managing Biodiversity in Agricultural Ecosystems.	26
Mankind Beyond Earth: The History, Science, and Future of Human Space Exploration; Claude A. Piantadosi.	30
Mann, Michael; The Madhouse Effect: How Climate Change Denial Is Threatening Our Planet, Destroying Our Politics, and Driving Us Crazy.	17, 27
Manning, Richard; Food's Frontier: The Next Green Revolution	27
Manolis, Timothy D.; Dragonflies and Damselflies of California	28
Maor, Eli; Venus in Transit.	28
Margulis, Lynn; Microcosmos: Four Billion Years of Microbial Evolution.	28
Markos, Peter; Wave Propagation: From Electrons to Photonic Crystals and Left-Handed Materials.	28
Marks, Jonathan; What It Means to Be 98% Chimpanzee: Apes, People, and Their Genes.	28
Marra, John F.; Hot Carbon: Carbon-14 and a Revolution in Science.	28
Marra, Peter P.; Cat Wars: The Devastating Consequences of a Cuddly Killer.	28
Marschall, Laurence; The Supernova Story.	28
Marshall, James A.R.; Social Evolution and Inclusive Fitness Theory: An Introduction.	28, 28
Marshall, Shawn J.; The Cryosphere.	28
Martin, Paul S.; Twilight of the Mammoths: Ice Age Extinctions and the Rewilding of America.	28
Mathez, Edmond; The Earth Machine: The Science of a Dynamic Planet.	28
Mattern, Susan; The Slow Moon Climbs: The Science, History, and Meaning of Menopause.	13, 28
Maudlin, Tim; Philosophy of Physics: Space and Time.	28
McCabe, Linda L.; How to Succeed in Academics, 2nd edition	28
McClamroch, N. Harris; Steady Aircraft Flight and Performance	28
McCray, W. Patrick; The Visioneers: How a Group of Elite Scientists Pursued Space Colonies, Nanotechnologies, and a Limitless Future.	28, 28
McGinn, Robert; The Ethical Engineer: Contemporary Concepts and Cases.	28, 28
McGinnis, Michael Vincent; Science and Sensibility: Negotiating an Ecology of Place.	28
McGowan, Christopher; Rail, Steam, and Speed: The "Rocket" and the Birth of Steam Locomotion.	28
Mcmenamin, Mark A. S.; The Garden of Ediacara: Discovering the First Complex Life.	28
McWilliams, James; American Pests: The Losing War on Insects from Colonial Times to DDT.	28
Meaning of Relativity, The: Including the Relativistic Theory of the Non-Symmetric Field - Fifth Edition; Albert Einstein.	23
Medea Hypothesis, The: Is Life on Earth Ultimately Self-Destructive?; Peter Ward.	34
Meldahl, Keith Heyer; Rough-Hewn Land: A Geologic Journey from California to the Rocky Mountains.	28, 28
Meldahl, Keith Heyer; Surf, Sand, and Stone: How Waves, Earthquakes, and Other Forces Shape the Southern California Coast.	28, 28
Memory: The Key to Consciousness; Richard F. Thompson	33
Merchant, Carolyn; The Columbia Guide to American Environmental History.	28
Mermin, N. David; It's About Time: Understanding Einstein's Relativity.	13, 28
Metalogic: An Introduction to the Metatheory of Standard First Order Logic; Geoffrey Hunter.	25
Metapatterns: Across Space, Time, and Mind; Tyler Volk	33
Microcosmos: Four Billion Years of Microbial Evolution; Lynn Margulis.	28
Milam, Erika Lorraine; Creatures of Cain: The Hunt for Human Nature in Cold War America.	28, 28
Milky Way, The: An Insider's Guide; William H. Waller.	34
Mind Thief: The Story of Alzheimer's; Han Yu.	1
Minelli, Alessandro; Forms of Becoming: The Evolutionary Biology of Development.	28
Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California, A; Daniel I. Axelrod.	19
Mitchell, Kevin J.; Innate: How the Wiring of Our Brains Shapes Who We Are.	17, 28
Modeling Populations of Adaptive Individuals; Steven F. Railsback.	31

Moffett, Mark W.; Adventures among Ants: A Global Safari with a Cast of Trillions.	28	Nature: An Economic History ; Geerat J. Vermeij.	33
Mohlenbrock, Robert H.; This Land: A Guide to Central National Forests.	28	Nature's Clocks: How Scientists Measure the Age of Almost Everything ; Doug Macdougall.	27
Mohlenbrock, Robert H.; This Land: A Guide to Eastern National Forests.	28	Nature's Compass: The Mystery of Animal Navigation ; James L. Gould.	24
Molina-Pérez, Rubén; Dinosaur Facts and Figures: The Sauropods and Other Sauropodomorphs.	29	Near-Earth Objects: Finding Them Before They Find Us ; Donald K. Yeomans.	34, 34
Molina-pérez, Rubén; Dinosaur Facts and Figures: The Theropods and Other Dinosauriformes.	29	Neptune's Ark: From Ichthyosaurs to Orcas ; David Rains Wallace.	34
Monarchs and Milkweed: A Migrating Butterfly, a Poisonous Plant, and Their Remarkable Story of Coevolution ; Anurag Agrawal.	19	Neubauer, Raymond; Evolution and the Emergent Self: The Rise of Complexity and Behavioral Versatility in Nature.	29
Montellano, Marisol; Mammalian Fauna of the Judith River Formation (Late Cretaceous, Judithian), Northcentral Montana	29	Neuroenology: How the Brain Creates the Taste of Wine ; Gordon Shepherd.	32
Moore, John A.; From Genesis to Genetics: The Case of Evolution and Creationism.	29	Neurogastronomy: How the Brain Creates Flavor and Why It Matters ; Gordon M. Shepherd.	18, 32
Moore, Randy; More Than Darwin: The People and Places of the Evolution-Creationism Controversy.	29	New Ecology, The: Rethinking a Science for the Anthropocene ; Oswald J. Schmitz.	31, 31
Morange, Michel; A History of Biology.	9	New Guinea: Nature and Culture of Earth's Grandest Island ; Bruce M. Beehler.	19
More Than Darwin: The People and Places of the Evolution-Creationism Controversy ; Randy Moore.	29	New World Monkeys: The Evolutionary Odyssey ; Alfred L. Rosenberger.	31
More Things in the Heavens: How Infrared Astronomy Is Expanding Our View of the Universe ; Michael Werner.	34	New York City Trees: A Field Guide for the Metropolitan Area ; Edward S. Barnard.	19
Mortal Rituals: What the Story of the Andes Survivors Tells Us About Human Evolution ; Matt J. Rossano.	31	Newman, William; Newton the Alchemist: Science, Enigma, and the Quest for Nature's "Secret Fire".	29
Morton, Oliver; The Planet Remade: How Geoengineering Could Change the World.	29, 29	Newton the Alchemist: Science, Enigma, and the Quest for Nature's "Secret Fire" ; William Newman.	29
Moss, Sanford; Natural History of the Antarctic Peninsula.	29	Newton, Isaac; The Principia: The Authoritative Translation and Guide: Mathematical Principles of Natural Philosophy.	29
Most Interesting Problem, A: What Darwin's Descent of Man Got Right and Wrong about Human Evolution ; Jeremy Desilva.	6	Newton, Isaac; The Principia: The Authoritative Translation: Mathematical Principles of Natural Philosophy.	18
Mountains That Remade America, The: How Sierra Nevada Geology Impacts Modern Life ; Craig H. Jones.	26, 26	Newton, Roger G.; Thinking about Physics.	29
Moyle, Peter B.; Fish: An Enthusiast's Guide.	29	Nielsen, Michael; Reinventing Discovery: The New Era of Networked Science.	18, 29, 29
Mukerji, Chandra; Impossible Engineering: Technology and Territoriality on the Canal du Midi.	29, 29	Nine Crazy Ideas in Science: A Few Might Even Be True ; Robert Ehrlich.	22
Mulvaney, Dustin; Solar Power: Innovation, Sustainability, and Environmental Justice.	29	No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity ; Daniel Kennefick.	17, 26
Munson, Carol J.; Postcranial Descriptions of Ilaria and Ngapakaldia (Vombatiformes, Marsupialia) and the Phylogeny of the Vombatiformes Based on Postcranial Morphology.	29	Noor, Mohamed A. F.; Live Long and Evolve: What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds.	18, 29
Mutter, John C.; Climate Change Science: A Primer for Sustainable Development.	17	Norberg, Jon; Complexity Theory for a Sustainable Future	29
Mystery of the Missing Antimatter, The ; Helen R. Quinn	30	Normal Accidents: Living with High Risk Technologies - Updated Edition ; Charles Perrow.	30
Myth of Continents, The: A Critique of Metageography ; Martin W. Lewis.	27	Normal and the Pathological, The ; Georges Canguilhem	21
Naeem, Shahid; Sustainable Food Production: A Primer for the Twenty-First Century.	29	Not by Design: Retiring Darwin's Watchmaker ; John Reiss	31
Nahin, Paul J.; Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable.	29	Not from the Apes: A History of Man's Origins and Evolution ; Björn Kurtén.	27
Nahin, Paul J.; In Praise of Simple Physics: The Science and Mathematics behind Everyday Questions.	29	Note-by-Note Cooking: The Future of Food ; Hervé This	32, 32
Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology ; Sonia Contera.	21	Nur, Amos; Apocalypse: Earthquakes, Archaeology, and the Wrath of God.	29
Napier, John; Hands.	29	Observatory Seismology: A Centennial Symposium for the Berkeley Seismographic Stations	27
Nash, Stephen; Grand Canyon For Sale: Public Lands versus Private Interests in the Era of Climate Change.	29	Ocean Outbreak: Confronting the Rising Tide of Marine Disease ; Drew Harvell.	25, 25
Natural Conflict Resolution	19	Oceans, The: A Deep History ; Eelco J. Rohling.	18, 31
Natural History of Families, A ; Scott Forbes.	24	Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom ; Daphne J. Fairbairn.	23, 23
Natural History of the Antarctic Peninsula ; Sanford Moss	29	Odd Quantum, The ; Sam Treiman.	33
Natural History Reader in Animal Behavior, The	33	Odenwald, Sten; The 23rd Cycle: Learning to Live with a Stormy Star.	29
Nature of Space and Time, The ; Stephen Hawking.	17		

Offit, Paul; Bad Advice: Or Why Celebrities, Politicians, and Activists Aren't Your Best Source of Health Information	29, 29
O'Hanlon, Michael E.; The Science of War: Defense Budgeting, Military Technology, Logistics, and Combat Outcomes	29
Omnès, Roland; Quantum Philosophy: Understanding and Interpreting Contemporary Science	29
Omoto, Charlotte; Genes and DNA: A Beginner's Guide to Genetics and Its Applications	29
On Fact and Fraud: Cautionary Tales from the Front Lines of Science ; David Goodstein	24
On Gaia: A Critical Investigation of the Relationship between Life and Earth ; Toby Tyrrell	33
On Gravity: A Brief Tour of a Weighty Subject ; A. Zee	18, 34
On Physics and Philosophy ; Bernard d'Espagnat	22
On Task: How Our Brain Gets Things Done ; David Badre	4
On the Future: Prospects for Humanity ; Martin Rees	18
On the Prowl: In Search of Big Cat Origins ; Mark Hallett	25
Onstott, Tullis C.; Deep Life: The Hunt for the Hidden Biology of Earth, Mars, and Beyond	29, 29
Oreskes, Naomi; Why Trust Science?	13, 29
Origin Then and Now, The: An Interpretive Guide to the Origin of Species ; David N. Reznick	31
Origins of Darwin's Evolution: Solving the Species Puzzle Through Time and Place ; J. David Archibald	19
Origins of Life and the Universe, The ; Paul Lurquin	27
Osterbrock, Donald E.; Eye on the Sky: Lick Observatory's First Century	29
Ostriker, Jeremiah P.; Heart of Darkness: Unraveling the Mysteries of the Invisible Universe	29, 29
Our Affair with El Niño: How We Transformed an Enchanting Peruvian Current into a Global Climate Hazard ; S. George Philander	30
Our Cosmic Habitat: New Edition ; Martin Rees	18
Out of the Crater: Chronicles of a Volcanologist ; Richard V. Fisher	23
Oxygen: A Four Billion Year History ; Donald E. Canfield	16, 21
Page, Lyman; The Little Book of Cosmology	15
Paleoclimate ; Michael L. Bender	19
Paleopoetics: The Evolution of the Preliterate Imagination ; Christopher Collins	21
Palumbi, Stephen R.; The Extreme Life of the Sea	29, 30
Paradox of Preservation, The: Wilderness and Working Landscapes at Point Reyes National Seashore ; Laura Alice Watt	34
Park, David; The Grand Contraption: The World as Myth, Number, and Chance	30
Park, Taisoo; Taxonomy and Distribution of the Calanoid Copepod Family Heterorhabdidae	30
Parrots of the Wild: A Natural History of the World's Most Captivating Birds ; Catherine A. Toft	33
Parting of the Sea, The: How Volcanoes, Earthquakes, and Plagues Shaped the Story of Exodus ; Barbara J. Sivertsen	32
Patton, James L.; The Evolutionary Dynamics of the Pocket Gopher <i>Thomomys bottae</i> , with Emphasis on California Populations	30
Paul, Charles B.; Science and Immortality: The Eloges of the Paris Academy of Sciences (1699-1791)	30
Pauly, Philip J.; Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey	30
Peebles, P. J. E.; Cosmology's Century: An Inside History of Our Modern Understanding of the Universe	30

Peeters, Hans J.; Field Guide to Owls of California and the West	30
Penrose, Roger; Fashion, Faith, and Fantasy in the New Physics of the Universe	14, 30
Perkins, John H.; Changing Energy: The Transition to a Sustainable Future	30
Perrow, Charles; Normal Accidents: Living with High Risk Technologies - Updated Edition	30
Pesticide Conspiracy, The ; Robert Van Den Bosch	33
Petroski, Henry; Success through Failure: The Paradox of Design	30
Phase Transitions ; Ricard Solé	32
Philander, S. George; Is the Temperature Rising?: The Uncertain Science of Global Warming	30
Philander, S. George; Our Affair with El Niño: How We Transformed an Enchanting Peruvian Current into a Global Climate Hazard	30
Philosophy of Biology ; Peter Godfrey-Smith	16
Philosophy of Physics: Space and Time ; Tim Maudlin	28
Physicist and the Philosopher, The: Einstein, Bergson, and the Debate That Changed Our Understanding of Time ; Jimena Canales	21
Pianka, Eric P.; Lizards: Windows to the Evolution of Diversity	30
Piantadosi, Claude; Mankind Beyond Earth: The History, Science, and Future of Human Space Exploration	30
Pickrell, John; Flying Dinosaurs: How Fearsome Reptiles Became Birds	30
Pickrell, John; Weird Dinosaurs: The Strange New Fossils Challenging Everything We Thought We Knew	30
Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty through Graphical Display ; Howard Wainer	33
Piilkey, Orrin H.; Useless Arithmetic: Why Environmental Scientists Can't Predict the Future	30
Planet Remade, The: How Geoengineering Could Change the World ; Oliver Morton	29, 29
Planetary Climates ; Andrew Ingersoll	25
Plant Diversity of an Andean Cloud Forest: Inventory of the Vascular Flora of Maquipucuna, Ecuador ; Grady L. Webster	34
Plant Migration: The Dynamics of Geographic Patterning in Seed Plant Species ; Jonathan D. Sauer	31
Plants of the San Francisco Bay Region: Mendocino to Monterey ; Linda H. Beidleman	19
Plastic Free: The Inspiring Story of a Global Environmental Movement and Why It Matters ; Rebecca Prince-Ruiz	30
Plate Tectonics and Great Earthquakes: 50 Years of Earth-Shaking Events ; Lynn R. Sykes	32
Plows, Plagues, and Petroleum: How Humans Took Control of Climate ; William F. Ruddiman	18
Pluriverse: A Post-Development Dictionary	26
Poinar, George; What Bugged the Dinosaurs?: Insects, Disease, and Death in the Cretaceous	30
Poldrack, Russell A.; Hard to Break: Why Our Brains Make Habits Stick	2
Political Theology of the Earth: Our Planetary Emergency and the Struggle for a New Public ; Catherine Keller	26
Porter, Theodore M.; The Rise of Statistical Thinking, 1820-1900	30
Porter, Theodore M.; Trust in Numbers: The Pursuit of Objectivity in Science and Public Life	30
Post, Eric; Time in Ecology: A Theoretical Framework [MPB 61]	30
Postcranial Descriptions of Ilaria and Ngapakaldia (Vombatiformes, Marsupialia) and the Phylogeny of the Vombatiformes Based on Postcranial Morphology ; Carol J. Munson	29

Posusney, Marsha P; Labor and the State in Egypt: Workers, Unions, and Economic Restructuring.	30
Powell, David C.; A Fascination for Fish: Adventures of an Underwater Pioneer.	30
Powell, James; Four Revolutions in the Earth Sciences: From Heresy to Truth.	30
Powell, Jerry A.; California Insects.	30
Power of the Internet in China, The: Citizen Activism Online ; Guobin Yang.	34, 34
Power, Speed, and Form: Engineers and the Making of the Twentieth Century ; David P. Billington.	20
Practice of Reproducible Research, The: Case Studies and Lessons from the Data-Intensive Sciences	26
Predicting the Unpredictable: The Tumultuous Science of Earthquake Prediction ; Susan Elizabeth Hough.	25
Primates and Philosophers: How Morality Evolved ; Frans de Waal.	22
Prince-Ruiz, Rebecca; Plastic Free: The Inspiring Story of a Global Environmental Movement and Why It Matters.	30
Principia: The Authoritative Translation and Guide, The: Mathematical Principles of Natural Philosophy ; Isaac Newton.	29
Principia: The Authoritative Translation, The: Mathematical Principles of Natural Philosophy ; Isaac Newton.	18
Progress and Its Problems: Towards a Theory of Scientific Growth ; Larry Laudan.	27
Prothero, Donald R.; Evolution: What the Fossils Say and Why It Matters.	30, 30
Prothero, Donald R.; Greenhouse of the Dinosaurs: Evolution, Extinction, and the Future of Our Planet.	30
Prothero, Donald R.; The Story of Evolution in 25 Discoveries: The Evidence and the People Who Found It.	10
Prothero, Donald R.; The Story of Life in 25 Fossils: Tales of Intrepid Fossil Hunters and the Wonders of Evolution.	30, 30
Prothero, Donald R.; The Story of the Dinosaurs in 25 Discoveries: Amazing Fossils and the People Who Found Them.	10, 30
Prothero, Donald R.; The Story of the Earth in 25 Rocks: Tales of Important Geological Puzzles and the People Who Solved Them.	30, 30
Pterosaurs: Natural History, Evolution, Anatomy ; Mark P. Witton.	34
Ptolemy's Philosophy: Mathematics as a Way of Life ; Jacqueline Feke.	23, 23
Pursell, Carroll; Technology in Postwar America: A History	30
QED: The Strange Theory of Light and Matter ; Richard P. Feynman.	23
Quantum Philosophy: Understanding and Interpreting Contemporary Science ; Roland Omnès.	29
Quarks to Culture: How We Came to Be ; Tyler Volk.	33
Quinn, Helen R.; The Mystery of the Missing Antimatter.	30
Quotable Darwin, The	20
Quotable Feynman, The ; Richard P. Feynman.	23
Rabins, Peter; The Why of Things: Causality in Science, Medicine, and Life.	31, 31
Raby, Peter; Alfred Russel Wallace: A Life.	31
Race and the Genetic Revolution: Science, Myth, and Culture	26
Race to the Finish: Identity and Governance in an Age of Genomics ; Jenny Reardon.	31
Rail, Steam, and Speed: The "Rocket" and the Birth of Steam Locomotion ; Christopher McGowan.	28
Railsback, Steven F.; Modeling Populations of Adaptive Individuals.	31
Raise: What 4-H Teaches Seven Million Kids and How Its Lessons Could Change Food and Farming Forever ; Kiera Butler.	20

Rampino, Michael; Cataclysms: A New Geology for the Twenty-First Century.	31
Randall, David; Atmosphere, Clouds, and Climate.	31
Randomness in Evolution ; John Tyler Bonner.	20
Rattlesnakes: Their Habits, Life Histories, and Influence on Mankind, Abridged edition ; Laurence M. Klauber.	26
Ray, Sarah Jaquette; A Field Guide to Climate Anxiety: How to Keep Your Cool on a Warming Planet.	18
Real Planet of the Apes, The: A New Story of Human Origins ; David R. Begun.	19, 19
Reardon, Jenny; Race to the Finish: Identity and Governance in an Age of Genomics.	31
Rees, Martin; On the Future: Prospects for Humanity.	18
Rees, Martin; Our Cosmic Habitat: New Edition.	18
Refiguring Life: Metaphors of Twentieth-Century Biology ; Evelyn Fox Keller.	26
Reice, Seth R.; The Silver Lining: The Benefits of Natural Disasters.	31
Reinventing Discovery: The New Era of Networked Science ; Michael Nielsen.	18, 29, 29
Reiss, John; Not by Design: Retiring Darwin's Watchmaker	31
Relativity: The Special and the General Theory - 100th Anniversary Edition ; Albert Einstein.	16, 23
Renn, Jürgen; Einstein on Einstein: Autobiographical and Scientific Reflections.	31
Renn, Jürgen; The Evolution of Knowledge: Rethinking Science for the Anthropocene.	31
Reptiles and Amphibians of the Pacific Islands: A Comprehensive Guide ; George R. Zug.	34
Return to the Sea: The Life and Evolutionary Times of Marine Mammals ; Annalisa Berta.	20, 20
Reznick, David N.; The Origin Then and Now: An Interpretive Guide to the Origin of Species.	31
Richardson, Ken; Genes, Brains, and Human Potential: The Science and Ideology of Intelligence.	31
Richter's Scale: Measure of an Earthquake, Measure of a Man ; Susan Elizabeth Hough.	25, 25
Rise of Statistical Thinking, 1820–1900, The ; Theodore M. Porter.	30
Rivers in Time: The Search for Clues to Earth's Mass Extinctions ; Peter D. Ward.	34
Rivers of the Anthropocene	26
Road to Relativity, The: The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece ; Hanoch Gutfreund.	24, 24
Roberts, Siobhan; Wind Wizard: Alan G. Davenport and the Art of Wind Engineering.	31
Robinson, Andrew; Einstein: A Hundred Years of Relativity	31
Rodriguez-Robles, Javier A.; Brief History of Herpetology in the Museum of Vertebrate Zoology, University of California, Berkeley, with a List of Type Specimens of Recent Amphibians and Reptiles.	31
Rohling, Eelco J.; The Oceans: A Deep History.	18, 31
Rolston III, Holmes; Three Big Bangs: Matter-Energy, Life, Mind.	31
Roossinck, Marilyn J.; Virus: An Illustrated Guide to 101 Incredible Microbes.	31
Rose, Michael R.; Darwin's Spectre: Evolutionary Biology in the Modern World.	31
Rosen, Robert; Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life.	31
Rosenberger, Alfred L.; New World Monkeys: The Evolutionary Odyssey.	31

Rosenfield, Israel; DNA: A Graphic Guide to the Molecule that Shook the World.	31
Rossano, Matt; Mortal Rituals: What the Story of the Andes Survivors Tells Us About Human Evolution.	31
Roughgarden, Joan; Evolution's Rainbow: Diversity, Gender, and Sexuality in Nature and People.	31
Roughgarden, Joan; The Genial Gene: Deconstructing Darwinian Selfishness.	31
Rough-Hewn Land: A Geologic Journey from California to the Rocky Mountains; Keith Heyer Meldahl.	28, 28
Roulstone, Ian; Invisible in the Storm: The Role of Mathematics in Understanding Weather.	31
Rubenstein, Mary-Jane; Worlds Without End: The Many Lives of the Multiverse.	31, 31
Rubin, Alan E.; Disturbing the Solar System: Impacts, Close Encounters, and Coming Attractions.	31
Ruddiman, William F.; Plows, Plagues, and Petroleum: How Humans Took Control of Climate.	18
Ryan, Michael J.; A Taste for the Beautiful: The Evolution of Attraction.	31, 31
Salmon, Wesley C.; Scientific Explanation and the Causal Structure of the World.	31
Same and Not the Same, The; Roald Hoffmann.	25
Sampson, Scott D.; Dinosaur Odyssey: Fossil Threads in the Web of Life.	31
Sartori, Leo; Understanding Relativity: A Simplified Approach to Einstein's Theories.	31
Sauer, Jonathan D.; Plant Migration: The Dynamics of Geographic Patterning in Seed Plant Species.	31
Saving America's Wildlife: Ecology and the American Mind, 1850-1990; Thomas Dunlap.	22
Schimmel, David; Climate and Ecosystems.	31
Schmitz, Oswald J.; The New Ecology: Rethinking a Science for the Anthropocene.	31, 31
Schneider, Susan; Artificial You: AI and the Future of Your Mind.	12, 32
Schroeder, Richard A.; Shady Practices: Agroforestry and Gender Politics in The Gambia.	32
Schweber, Silvan S.; In the Shadow of the Bomb: Oppenheimer, Bethe, and the Moral Responsibility of the Scientist.	32
Science and Immortality: The Eloges of the Paris Academy of Sciences (1699-1791); Charles B. Paul.	30
Science and Sensibility: Negotiating an Ecology of Place; Michael Vincent McGinnis.	28
Science and Technology in a Multicultural World: The Cultural Politics of Facts and Artifacts; David J. Hess.	25
Science of War, The: Defense Budgeting, Military Technology, Logistics, and Combat Outcomes; Michael E. O'Hanlon.	29
Science, the Endless Frontier; Vannevar Bush.	11
Scientific Explanation and the Causal Structure of the World; Wesley C. Salmon.	31
Scientist's Guide to Writing, The: How to Write More Easily and Effectively throughout Your Scientific Career; Stephen B. Heard.	25
Scott, Eugenie C.; Evolution vs. Creationism: An Introduction.	32
Scott, Thomas R.; The Universe as It Really Is: Earth, Space, Matter, and Time.	32
Scranton, Philip; Endless Novelty: Specialty Production and American Industrialization, 1865-1925.	32
Sea of Glass, A: Searching for the Blaschkas' Fragile Legacy in an Ocean at Risk; Drew Harvell.	25, 25
Seabright, Paul; The War of the Sexes: How Conflict and Cooperation Have Shaped Men and Women from Prehistory to the Present.	32, 32

Searching for the Oldest Stars: Ancient Relics from the Early Universe; Anna Frebel.	24, 24
Seasonal Carbon Cycling in the Sargasso Sea Near Bermuda; Nicolas Gruber.	24
Secret Life of Science, The: How It Really Works and Why It Matters; Jeremy J. Baumberg.	19
Secret of Our Success, The: How Culture Is Driving Human Evolution, Domesticating Our Species, and Making Us Smarter; Joseph Henrich.	25
Seeds of Amazonian Plants; Fernando Cornejo.	21
Seeley, Thomas D.; Honeybee Democracy.	32
Self-Assembling Brain, The: How Neural Networks Grow Smarter; Peter Robin Hiesinger.	2
Sensuous Seas: Tales of a Marine Biologist; Eugene H. Kaplan.	26
Serendipity: An Ecologist's Quest to Understand Nature; James A. Estes.	23, 23
Serengeti Rules, The: The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author; Sean B. Carroll.	16
Serengeti Rules, The: The Quest to Discover How Life Works and Why It Matters; Sean B. Carroll.	21
Series of Fortunate Events, A: Chance and the Making of the Planet, Life, and You; Sean B. Carroll.	15
Serreze, Mark C.; Brave New Arctic: The Untold Story of the Melting North.	18, 32
Seven Hills of Rome, The: A Geological Tour of the Eternal City; Grant Heiken.	25
Sexual Selections: What We Can and Can't Learn about Sex from Animals; Marlene Zuk.	34
Seyfarth, Robert; The Social Origins of Language.	32
Shady Practices: Agroforestry and Gender Politics in The Gambia; Richard A. Schroeder.	32
Shapin, Steven; Leviathan and the Air-Pump: Hobbes, Boyle, and the Experimental Life.	32
Shapiro, Arthur; Field Guide to Butterflies of the San Francisco Bay and Sacramento Valley Regions.	32
Sharks, Rays, and Chimaeras of California; David Ebert.	22
Shepherd, Gordon; Neuroenology: How the Brain Creates the Taste of Wine.	32
Shepherd, Gordon; Neurogastronomy: How the Brain Creates Flavor and Why It Matters.	18, 32
Sherbrooke, Wade C.; Introduction to Horned Lizards of North America.	32
Shoemaker by Levy: The Man Who Made an Impact; David H. Levy.	27
Sibling Species of Titmice in the Parus inornatus Complex (Aves: Paridae); Carla Cicero.	21
Silicon Jungle, The: A Novel of Deception, Power, and Internet Intrigue; Shumeet Baluja.	19
Silicon Second Nature: Culturing Artificial Life in a Digital World, Updated With a New Preface; Stefan Helmreich.	25
Silver Lining, The: The Benefits of Natural Disasters; Seth R. Reice.	31
Sime, Ruth Lewin; Lise Meitner: A Life in Physics.	32
Simon, Gregory L.; Flame and Fortune in the American West: Urban Development, Environmental Change, and the Great Oakland Hills Fire.	32
Sivertsen, Barbara J.; The Parting of the Sea: How Volcanoes, Earthquakes, and Plagues Shaped the Story of Exodus.	32
Slotten, Ross; The Heretic in Darwin's Court: The Life of Alfred Russel Wallace.	32, 32
Slow Moon Climbs, The: The Science, History, and Meaning of Menopause; Susan Mattern.	13, 28
Small Unmanned Aircraft: Theory and Practice; Randal W. Beard.	19

Smith, Timothy Paul; Hidden Worlds: Hunting for Quarks in Ordinary Matter	32
Snakes of Europe, North Africa and the Middle East: A Photographic Guide ; Philippe Geniez	24
Snakes: The Evolution of Mystery in Nature ; Harry W. Greene	24
So You Want to Be a Neuroscientist?: An Honest Account of Life as a Scientist ; Ashley Juavinett	5
Social Amoebae, The: The Biology of Cellular Slime Molds ; John Tyler Bonner	20
Social Evolution and Inclusive Fitness Theory: An Introduction ; James A.R. Marshall	28, 28
Social Origins of Language, The ; Robert M. Seyfarth	32
Solar Power: Innovation, Sustainability, and Environmental Justice ; Dustin Mulvaney	29
Solé, Ricard; Phase Transitions	32
Solé, Ricard; Viruses as Complex Adaptive Systems	32
Species: A History of the Idea ; John S. Wilkins	34
Spike, The: An Epic Journey Through the Brain in 2.1 Seconds ; Mark Humphries	1
Stallcup, Rich; Field Guide to Birds of the Northern California Coast	32
Stanford, Craig B.; The Hunting Apes: Meat Eating and the Origins of Human Behavior	32
Starrs, Paul; Field Guide to California Agriculture	32
State of China Atlas, The: Mapping the World's Fastest-Growing Economy ; Robert Benewick	19
Statistical Computation for Environmental Sciences in R: Lab Manual for Models for Ecological Data ; James S. Clark	21
Steady Aircraft Flight and Performance ; N. Harris McClamroch	28
Stealing Into Print: Fraud, Plagiarism, and Misconduct in Scientific Publishing ; Marcel C. LaFollette	27
Stein, Seth; Disaster Deferred: A New View of Earthquake Hazards in the New Madrid Seismic Zone	32, 32
Stem Cell Dialogues: A Philosophical and Scientific Inquiry Into Medical Frontiers ; Sheldon Krinsky	26, 26
Stommel, Henry M.; A View of the Sea: A Discussion between a Chief Engineer and an Oceanographer about the Machinery of the Ocean Circulation	32
Stone, A. Douglas; Einstein and the Quantum: The Quest of the Valiant Swabian	32, 32
Story of Evolution in 25 Discoveries, The: The Evidence and the People Who Found It ; Donald R. Prothero	10
Story of Life in 25 Fossils, The: Tales of Intrepid Fossil Hunters and the Wonders of Evolution ; Donald R. Prothero	30, 30
Story of the Dinosaurs in 25 Discoveries, The: Amazing Fossils and the People Who Found Them ; Donald R. Prothero	10, 30
Story of the Earth in 25 Rocks, The: Tales of Important Geological Puzzles and the People Who Solved Them ; Donald R. Prothero	30, 30
Strange Glow: The Story of Radiation ; Timothy J. Jorgensen	17, 26
Strange New Worlds: The Search for Alien Planets and Life beyond Our Solar System ; Ray Jayawardhana	26
Strength in Numbers, The: The New Science of Team Science ; Barry Bozeman	20, 20
Student's Guide to Python for Physical Modeling, A: Updated Edition ; Jesse M. Kinder	26
Subconsciousness: Automatic Behavior and the Brain ; Yves Agid	11
Subramanian, Sushma; How to Feel: The Science and Meaning of Touch	3

Success through Failure: The Paradox of Design ; Henry Petroski	30
Sumida, Stuart Shigeo; Vertebral Morphology, Alternation of Neural Spine Height, and Structure in Permo-Carboniferous Tetrapods, and a Reappraisal of Primitive Modes of Terrestrial Locomotion	32
Sun Kings, The: The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began ; Stuart Clark	21
Sun's Influence on Climate, The ; Joanna D. Haigh	25
Super Polluters: Tackling the World's Largest Sites of Climate-Disrupting Emissions ; Don Grant	24
Supernova Story, The ; Laurence Marschall	28
Surf, Sand, and Stone: How Waves, Earthquakes, and Other Forces Shape the Southern California Coast ; Keith Heyer Meldahl	28, 28
Sustainability Management: Lessons from and for New York City, America, and the Planet ; Steven Cohen	21
Sustainability through Soccer: An Unexpected Approach to Saving Our World ; Leidy Klotz	26
Sustainable City, The ; Steven Cohen	21, 21
Sustainable Food Production: A Primer for the Twenty-First Century ; Shahid Naeem	29
Sykes, Lynn R.; Plate Tectonics and Great Earthquakes: 50 Years of Earth-Shaking Events	32
Symbiotic Habit, The ; Angela E Douglas	22
Systematic Review of the Ectemnius (Hymenoptera, A: Sphecidae) of Hawaii ; Raina L. Takumi	32
Systematics and Biology of the Genus Macrocneme Hübner (Lepidoptera: Ctenuchidae) ; Robert E., IV Dietz	22
Systematics of Anopina Obratzov (Lepidoptera Tortricidae: Euliini) ; John W. Brown	20
Systematics of the Chrysoxena Group of Genera (Lepidoptera: Tortricidae: Euliini) ; John W. Brown	20
T. rex and the Crater of Doom ; Walter Alvarez	16
Takumi, Raina L.; A Systematic Review of the Ectemnius (Hymenoptera: Sphecidae) of Hawaii	32
Tambora: The Eruption That Changed the World ; Gillen D'Arcy Wood	34
Tassoul, Jean-Louis; A Concise History of Solar and Stellar Physics	27
Taste for the Beautiful, A: The Evolution of Attraction ; Michael J. Ryan	31, 31
Taxonomy and Distribution of the Calanoid Copepod Family Heterorhabdidae ; Taisoo Park	30
Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus, The: (Coleoptera: Histeridae) ; Michael S. Caterino	21
Technology in Postwar America: A History ; Carroll Pursell	30
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Tesla: Inventor of the Electrical Age ; W. Bernard Carlson	16
Theories of Population Variation in Genes and Genomes ; Freddy Bugge Christiansen	21
Theory of Ecological Communities (MPB-57), The ; Mark Vellend	33
Theory That Changed Everything, The: "On the Origin of Species" as a Work in Progress ; Philip Lieberman	27, 27
Thewissen, J. G. M. Hans; The Walking Whales: From Land to Water in Eight Million Years	32
Thieves, Deceivers, and Killers: Tales of Chemistry in Nature ; William Agosta	19
Things Fall Together: A Guide to the New Materials Revolution ; Skylar Tibbits	6

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This Land: A Guide to Eastern National Forests ; Robert H. Mohlenbrock.	28
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Tibbitts, Skylar; Things Fall Together: A Guide to the New Materials Revolution	6
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Topophilia: A Study of Environmental Perceptions, Attitudes, and Values ; Yi-Fu Tuan.	33
Torrey, E. Fuller; Evolving Brains, Emerging Gods: Early Humans and the Origins of Religion	33
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Tschinkel, Walter R.; Ant Architecture: The Wonder, Beauty, and Science of Underground Nests	8
Tuan, Yi-Fu; Topophilia: A Study of Environmental Perceptions, Attitudes, and Values	33
Tupai: A Field Study of Bornean Treeshrews ; Louise H. Emmons.	23
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Tyson, Neil de Grasse; Universe Down to Earth	33
Tyson, Neil deGrasse; Welcome to the Universe: An Astrophysical Tour	33
Tyson, Neil deGrasse; Welcome to the Universe: The Problem Book	33
Ulam, S. M.; Adventures of a Mathematician	33
Ulanowicz, Robert; Ecology, the Ascendent Perspective	33
Ultimate Book of Saturday Science, The: The Very Best Backyard Science Experiments You Can Do Yourself ; Neil A. Downie.	22
Ultimate Quotable Einstein, The ; Albert Einstein.	16, 23
Understanding Relativity: A Simplified Approach to Einstein's Theories ; Leo Sartori.	31
Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security, Second Edition ; Brian W. Kernighan.	12, 26
Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security ; Brian W. Kernighan.	26
Ungar, Peter; Evolution's Bite: A Story of Teeth, Diet, and Human Origins	33, 33
Universe as It Really Is, The: Earth, Space, Matter, and Time ; Thomas R. Scott.	32
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Unsolved Problems in Ecology	22
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Useless Arithmetic: Why Environmental Scientists Can't Predict the Future ; Orrin H. Pilkey.	30
Vacuum Bazookas, Electric Rainbow Jelly, and 27 Other Saturday Science Projects ; Neil A. Downie.	22
Valenstein, Elliot; The War of the Soups and the Sparks: The Discovery of Neurotransmitters and the Dispute Over How Nerves Communicate	33
Vallis, Geoffrey K.; Climate and the Oceans	33
Van Den Bosch, Robert; The Pesticide Conspiracy	33
Vanishing Ice: Glaciers, Ice Sheets, and Rising Seas ; Vivien Gornitz.	24
Vellend, Mark; The Theory of Ecological Communities (MPB-57)	33
Venus in Transit ; Eli Maor.	28
Vermeij, Geerat J.; Nature: An Economic History	33

Verstynen, Timothy; Do Zombies Dream of Undead Sheep?: A Neuroscientific View of the Zombie Brain.	33, 33
Vertebral Morphology, Alternation of Neural Spine Height, and Structure in Permo-Carboniferous Tetrapods, and a Reappraisal of Primitive Modes of Terrestrial Locomotion; Stuart Shigeo Sumida.	32
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Volcanoes in Human History: The Far-Reaching Effects of Major Eruptions; Jelle Zeilinga de Boer.	34
Volcanoes: Crucibles of Change; Richard V. Fisher.	23
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Volk, Tyler; Quarks to Culture: How We Came to Be.	33
von Plato, Jan; The Great Formal Machinery Works: Theories of Deduction and Computation at the Origins of the Digital Age	33
Wagner, Günter P.; Homology, Genes, and Evolutionary Innovation.	33
Wainer, Howard; Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty through Graphical Display.	33
Waksman, Selman A.; The Conquest of Tuberculosis.	33
Walking Whales, The: From Land to Water in Eight Million Years; J. G. M. Hans Thewissen.	32
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Wallace, David Rains; Beasts of Eden: Walking Whales, Dawn Horses, and Other Enigmas of Mammal Evolution.	33
Wallace, David Rains; Chuckwalla Land: The Riddle of California's Desert.	34
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Waller, William H.; The Milky Way: An Insider's Guide.	34
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War of the Sexes, The: How Conflict and Cooperation Have Shaped Men and Women from Prehistory to the Present; Paul Seabright.	32, 32
War of the Soups and the Sparks, The: The Discovery of Neurotransmitters and the Dispute Over How Nerves Communicate; Elliot S. Valenstein.	33
Ward, Peter; Rivers in Time: The Search for Clues to Earth's Mass Extinctions.	34
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Weather of the San Francisco Bay Region; Harold Gilliam	24
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Weintraub, David A.; Is Pluto a Planet?: A Historical Journey through the Solar System.	34
Weintraub, David A.; Life on Mars: What to Know Before We Go.	18, 34
Weird Dinosaurs: The Strange New Fossils Challenging Everything We Thought We Knew; John Pickrell.	30
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Welcome to the Universe: An Astrophysical Tour; Neil deGrasse Tyson.	33
Welcome to the Universe: The Problem Book; Neil deGrasse Tyson.	33
Wellmann, Janina; The Form of Becoming: Embryology and the Epistemology of Rhythm, 1760–1830.	34
Well-Ordered Thing, A: Dmitrii Mendeleev and the Shadow of the Periodic Table, Revised Edition; Michael D. Gordin	24
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Werner, Michael; More Things in the Heavens: How Infrared Astronomy Is Expanding Our View of the Universe.	34
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Why Men Won't Ask for Directions: The Seductions of Sociobiology; Richard C. Francis.	24
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Why Trust Science?; Naomi Oreskes.	13, 29
Whysner, John; The Alchemy of Disease: How Chemicals and Toxins Cause Cancer and Other Illnesses.	34
Wignall, Paul B.; The Worst of Times: How Life on Earth Survived Eighty Million Years of Extinctions.	34, 34
Wilkins, John S.; Species: A History of the Idea.	34

Williams, George Christopher; Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought . . .	34
Wilson, Catherine; The Invisible World: Early Modern Philosophy and the Invention of the Microscope.	34
Wind Wizard: Alan G. Davenport and the Art of Wind Engineering; Siobhan Roberts.	31
Witton, Mark P.; Pterosaurs: Natural History, Evolution, Anatomy.	34
Wizards, Aliens, and Starships: Physics and Math in Fantasy and Science Fiction; Charles L. Adler.	19, 19
Wonders and the Order of Nature 1150–1750; Lorraine Daston.	22
Wood, Gillen D'Arcy; Land of Wondrous Cold: The Race to Discover Antarctica and Unlock the Secrets of Its Ice.	34
Wood, Gillen D'Arcy; Tambora: The Eruption That Changed the World.	34
World According to Physics, The; Jim Al-Khalili.	14
Worlds Without End: The Many Lives of the Multiverse; Mary-Jane Rubenstein.	31, 31
Worst of Times, The: How Life on Earth Survived Eighty Million Years of Extinctions; Paul B. Wignall.	34, 34
Wynne, Clive D. L.; Do Animals Think?.	34
Wynne, Jessica; Do Not Erase: Mathematicians and Their Chalkboards.	5
Yang, Guobin; The Power of the Internet in China: Citizen Activism Online.	34, 34
Yeomans, Donald K.; Near-Earth Objects: Finding Them Before They Find Us.	34, 34
Yu, Han; Mind Thief: The Story of Alzheimer's.	1
Zee, A.; Fearful Symmetry: The Search for Beauty in Modern Physics.	34
Zee, A.; On Gravity: A Brief Tour of a Weighty Subject. . .	18, 34
Zeilinga de Boer, Jelle; Volcanoes in Human History: The Far-Reaching Effects of Major Eruptions.	34
Zimmerman, Robert; The Universe in a Mirror: The Saga of the Hubble Space Telescope and the Visionaries Who Built It. . .	34
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