

The University Press Group

Biology & Neuroscience

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Complete Catalogue

Spring 2021



University of California Press

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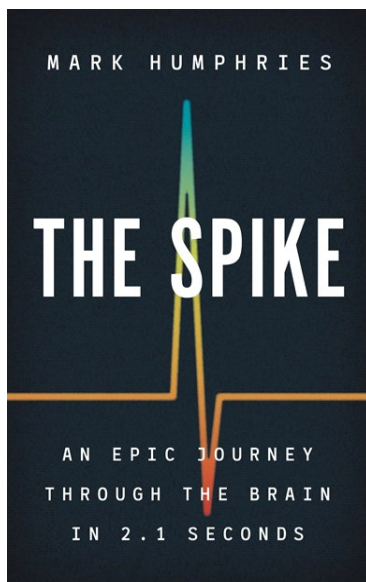
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upguk.com



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

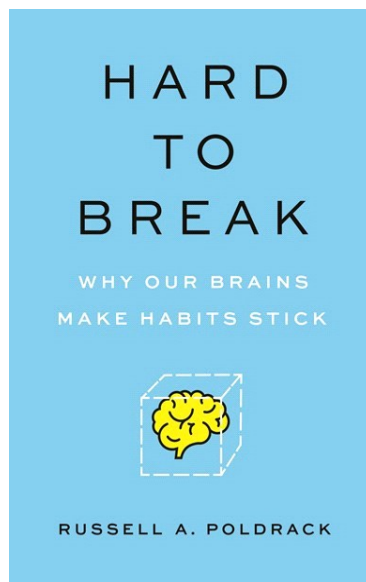
We see the last cookie in the box and think, can I take that? We reach a hand out. In the 2.1 seconds that this impulse travels through our brain, billions of neurons communicate with one another, sending blips of voltage through our sensory and motor regions. Neuroscientists call these blips “spikes.” 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 | 156mm : 234mm
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

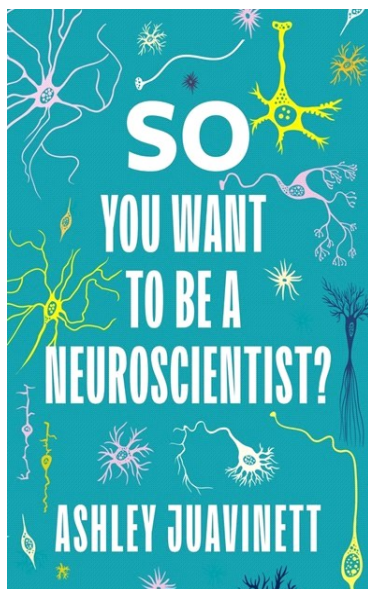
We all have habits we’d like to break, but for many of us it can be nearly impossible to do so. There is a good reason for this: the brain is a habit-building machine. In *Hard to Break*, leading neuroscientist Russell Poldrack provides an engaging and authoritative account of the science of how habits 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.

9780691194325
\$24.95 | £20.00
Hardback
240 pages | 155.57mm : 234.95mm
2021

SCIENCE / Life Sciences
Princeton University Press



So You Want to Be a Neuroscientist?

An Honest Account of Life as a Scientist

Ashley Juavinett

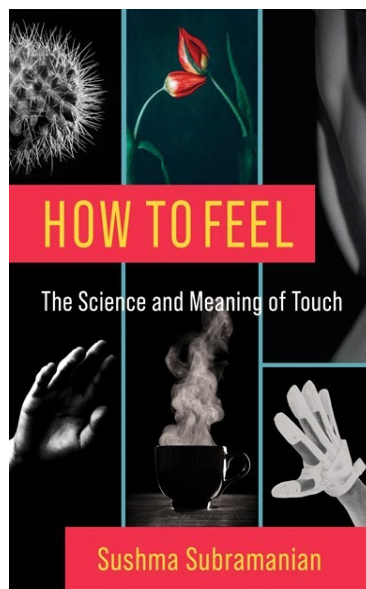
The pursuit to understand the human brain in all its intricacy is a fascinatingly complex challenge and neuroscience is one of the fastest-growing scientific fields worldwide. There is a wide range of career options open to those who wish to pursue a career in neuroscience, yet there are few resources 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.

9780231190893
\$19.95 | £14.99
Paperback
328 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press



How to Feel

The Science and Meaning of Touch

Sushma Subramanian

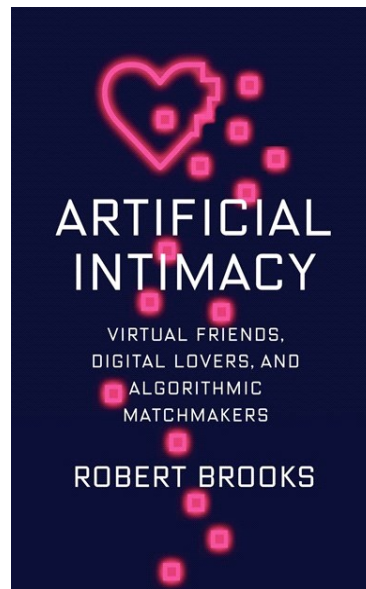
We are out of touch. Many people fear that we are trapped inside our screens, becoming less in tune with our bodies and losing our connection to the physical world. But the sense of touch has been undervalued since long before the days of digital isolation. Because of deeply rooted beliefs that favor 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.

9780231199322
\$30.00 | £24.00
Hardback
272 pages | 139.7mm : 215.9mm
2021

Science / Life Sciences
Columbia 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.

9780231198684
\$27.95 | £22.00
Hardback
280 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press

Artificial Intimacy

Virtual Friends, Digital Lovers, and Algorithmic Matchmakers

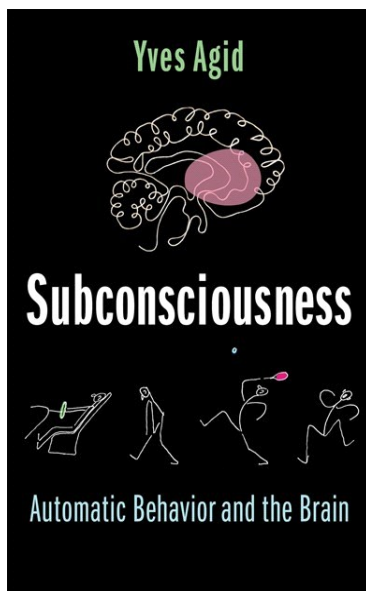
Rob Brooks

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.

9780231200943
\$32.00 | £28.00
Hardback
288 pages | 139.7mm : 215.9mm
2021

Science / Life Sciences
Columbia University Press



Subconsciousness

Automatic Behavior and the Brain

Yves Agid

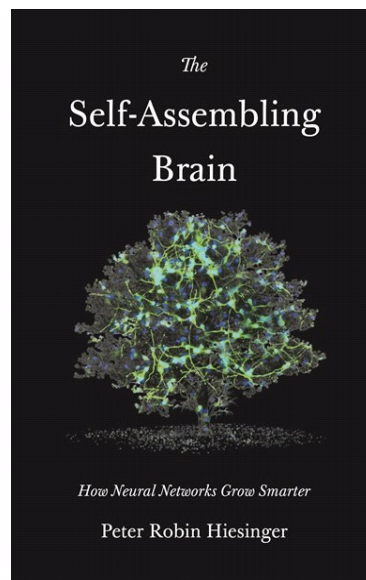
We are conscious of only a small fraction of our lives. Because the brain constantly receives an enormous quantity of information, we need to be able to do things without thinking about them—to act in “autopilot” mode. Automatic behaviors—the vast majority of our activities—occur without our conscious 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.

9780231201261
\$95.00 | £78.00
Hardback
128 pages | 128.524mm : 198.374mm
2021

SCIENCE / Life Sciences
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

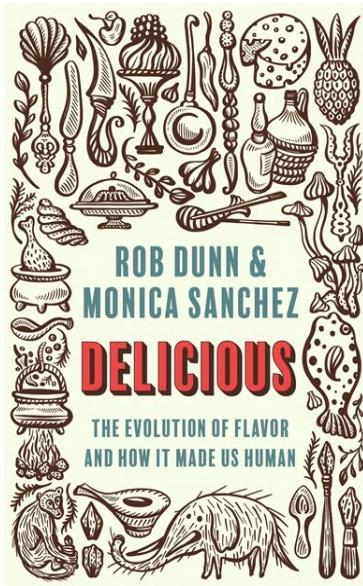
How does a neural network become a brain? While neurobiologists investigate how nature accomplishes this feat, computer scientists interested in artificial intelligence strive to achieve this through technology. *The Self-Assembling Brain* tells the stories of both fields, exploring the historical and 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.

9780691181226
\$29.95 | £25.00
Hardback
368 pages | 150mm : 234mm
2021

SCIENCE / Life Sciences
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

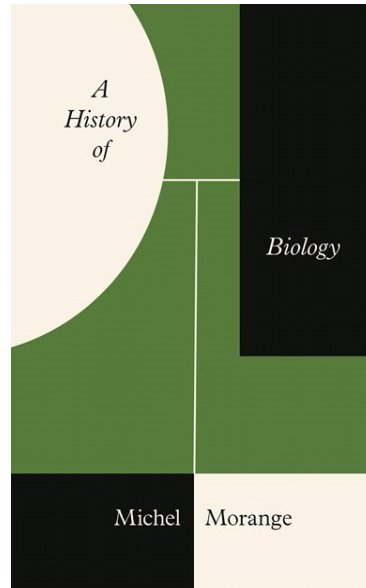
Nature, it has been said, invites us to eat by appetite and rewards by flavor. But what exactly are flavors? Why are some so pleasing while others are not? *Delicious* is a supremely entertaining foray into the heart of such questions.

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
\$27.95 | £20.00
Hardback
304 pages | 139.7mm : 215.9mm
2021

Science / Life Sciences
Princeton University Press



A History of Biology

Michel Morange, Teresa Lavender Fagan, Joseph Mui

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

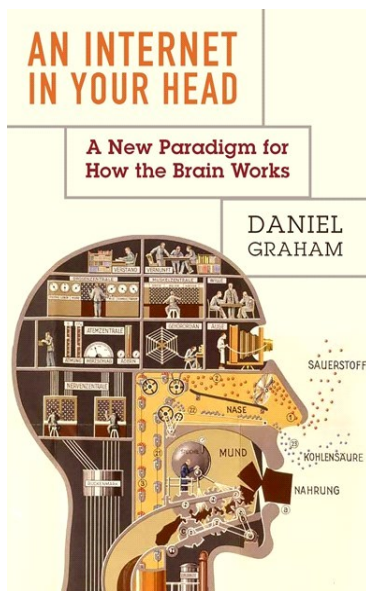
This book presents a global history of the biological sciences from ancient times to today, providing needed perspective on the development of biological thought while shedding light on the field's upheavals and key breakthroughs through the ages. Michel Morange brings to life the dynamic interplay of 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



An Internet in Your Head

A New Paradigm for How the Brain Works
Daniel Graham

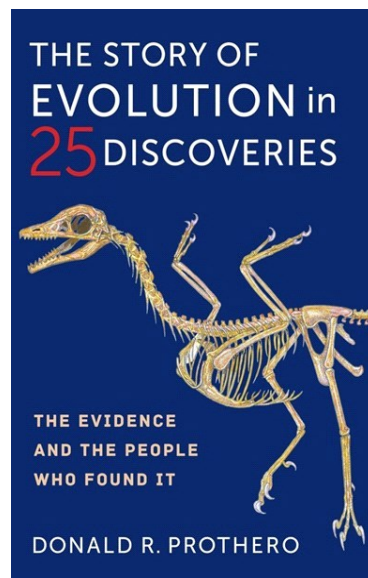
Whether we realize it or not, we think of our brains as computers. In neuroscience, the metaphor of the brain as a computer has defined the field for much of the modern era. But as neuroscientists increasingly reevaluate their assumptions about how brains work, we need a new metaphor to help us ask better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

9780231196048
\$30.00 | £24.00
Hardback
360 pages | 139.7mm : 215.9mm
2021

SCIENCE / Life Sciences
Columbia University Press



The Story of Evolution in 25 Discoveries

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

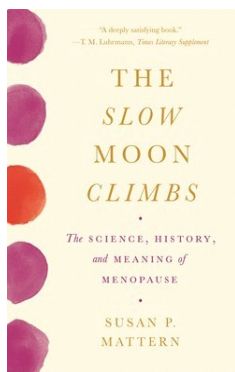
The theory of evolution unites the past, present, and future of living things. It puts humanity's place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing.

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 Slow Moon Climbs

The Science, History, and Meaning of Menopause
Susan Mattern

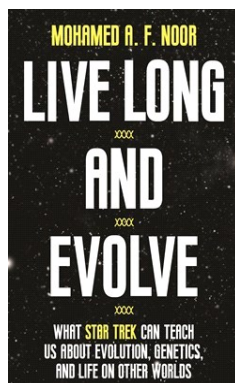
9780691216720
\$19.95 : £16.99
Paperback

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.



Live Long and Evolve

What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds
Mohamed A. F. Noor

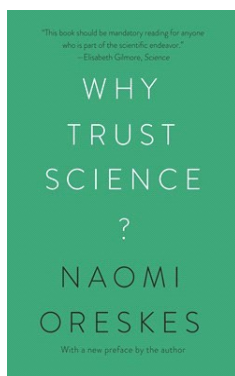
9780691203935
\$16.95 : £13.99
Paperback

208 pages | 127mm : 203.2mm
2020

Science
Princeton University Press

An engaging journey into the biological principles underpinning a beloved science-fiction franchise

In *Star Trek*, crew members travel to unusual planets, meet diverse beings, and encounter unique civilizations. In these remarkable space adventures, does *Star Trek* reflect biology and evolution as we know it? What can the science in the science fiction of *Star Trek* teach us? In *Live Long and Evolve*, biologist and die-hard Trekkie Mohamed Noor takes readers on a fun, fact-filled scientific journey. Noor offers Trekkies, science-fiction fans, and anyone curious about how life works a cosmic gateway into introductory biology, including the definitions and origins of life, DNA, reproduction, and evolutionary processes. Giving readers irresistible insights, *Live Long and Evolve* looks at some of the powerful science behind one of the most popular science-fiction series.



Why Trust Science?

Naomi Oreskes

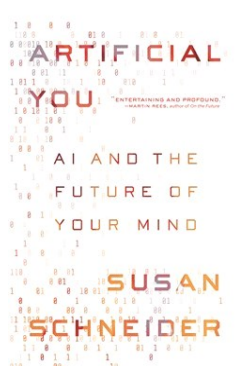
9780691212265
\$18.95 : £15.99
Paperback

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.



Artificial You

AI and the Future of Your Mind
Susan Schneider

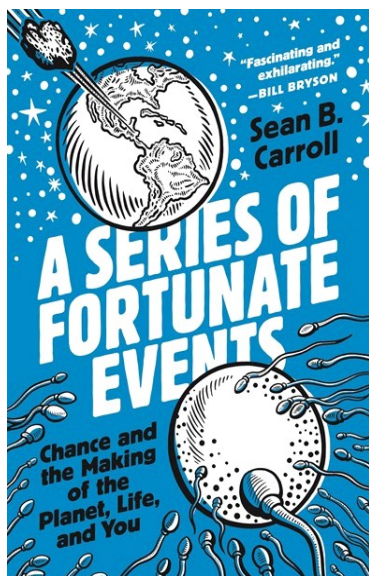
9780691216744
\$16.95 : £13.99
Paperback

192 pages | 139.7mm : 215.9mm
2021

SCIENCE
Princeton University Press

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.



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

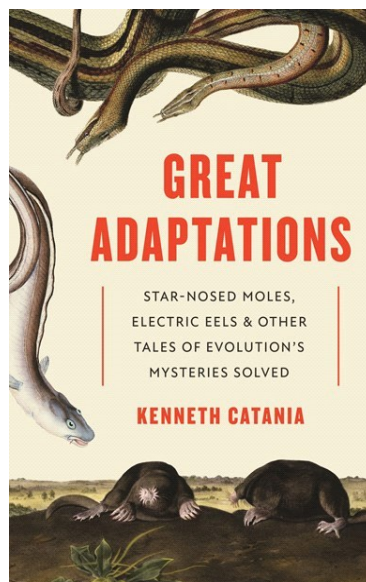
Why is the world the way it is? How did we get here? Does everything happen for a reason or are some things left to chance? Philosophers and theologians have pondered these questions for millennia, but startling scientific discoveries over the past half century are revealing that we live in a world driven 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



Great Adaptations

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

Kenneth Catania

"The irresistible enthusiasm of *Great Adaptations* couldn't come at a better time."—David P. Barash, *Wall Street Journal*

"Be very amazed."—Carl Safina, author of *Beyond Words* and *Becoming Wild*

How one scientist unlocked the secrets behind some of nature's most astounding animals

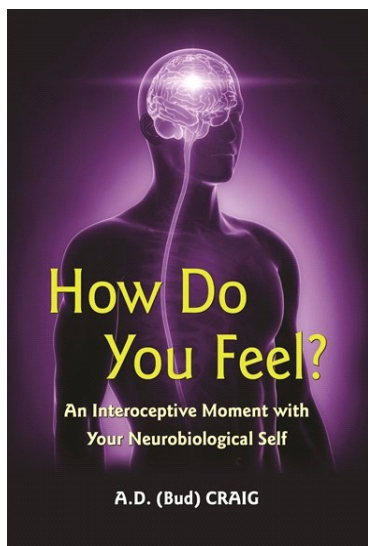
From star-nosed moles that have super-sensing snouts to electric eels that paralyze their prey, animals possess unique and extraordinary abilities. In *Great Adaptations*, Kenneth Catania presents an entertaining and engaging look at some of nature's most remarkable creatures. Telling the story of his biological detective work, Catania sheds light on the mysteries behind the behaviors of tentacle snakes, tiny shrews, zombie-making wasps, and more. He shows not only how studying these animals can provide deep insights into how life evolved, but also how scientific discovery can be filled with adventure and fun.

Beginning with the star-nosed mole, Catania reveals what the creature's nasal star is actually for, and what this tells us about how brains work. He explores how the deceptive hunting strategy of tentacle snakes leads prey straight to their mouths, how eels use electricity to control other animals, and why emerald jewel wasps make zombies out of cockroaches. He also solves the enigma of worm grunting—a traditional technique in which earthworms are enticed out of the ground—by teaming up with professional worm grunTERS. Catania demonstrates the merits of approaching science with an open mind, considers the role played by citizen scientists, and illustrates that most animals have incredible, hidden abilities that defy our imagination.

Examining some strange and spectacular creatures, *Great Adaptations* offers a wondrous journey into nature's grand designs.

9780691195254
\$27.95 | £22.00
Hardback
224 pages | 155.57mm : 234.95mm
2020

Science / Natural History
Princeton University Press



How Do You Feel?

An Interoceptive Moment with Your Neurobiological Self

A. D. Craig

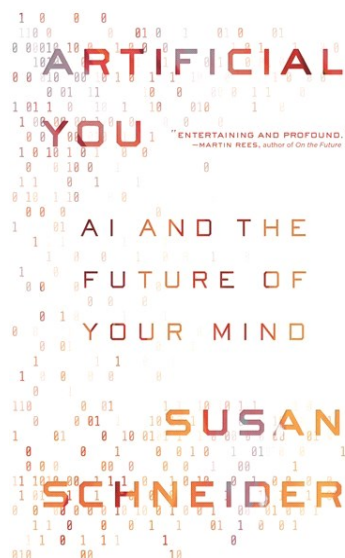
A book that fundamentally changes how neuroscientists and psychologists categorize sensations and understand the origins and significance of human feelings

How Do You Feel? brings together startling evidence from neuroscience, psychology, and psychiatry to present revolutionary new insights into how our brains enable us to experience the range of sensations and mental states known as feelings. Drawing on his own cutting-edge research, neurobiologist Bud Craig has identified an area deep inside the mammalian brain—the insular cortex—as the place where interoception, or the processing of bodily stimuli, generates feelings. He shows how this crucial pathway for interoceptive awareness gives rise in humans to the feeling of being alive, vivid perceptual feelings, and a subjective image of the sentient self across time. Craig explains how feelings represent activity patterns in our brains that signify emotions, intentions, and thoughts, and how integration of these patterns is driven by the unique energy needs of the hominid brain. He describes the essential role of feelings and the insular cortex in such diverse realms as music, fluid intelligence, and bivalent emotions, and relates these ideas to the philosophy of William James and even to feelings in dogs.

How Do You Feel? is also a compelling insider's account of scientific discovery, one that takes readers behind the scenes as the astonishing answer to this neurological puzzle is pursued and pieced together from seemingly unrelated fields of scientific inquiry. This book will fundamentally alter the way that neuroscientists and psychologists categorize sensations and understand the origins and significance of human feelings.

9780691204086
\$29.95 | £25.00
Paperback
384 pages | 177.8mm : 254mm
2020

SCIENCE / Life Sciences
Princeton University Press



Artificial You

AI and the Future of Your Mind

Susan Schneider

Hailed by the *Washington Post* as “a sure-footed and witty guide to slippery ethical terrain,” a philosophical exploration of AI and the future of the mind that Astronomer Royal Martin Rees calls “profound and entertaining”

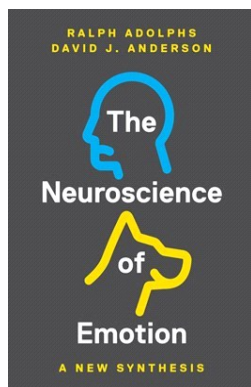
Humans may not be Earth's most intelligent beings for much longer: the world champions of chess, Go, and *Jeopardy!* are now all AIs. Given the rapid pace of progress in AI, many predict that it could advance to human-level intelligence within the next several decades. From there, it could quickly outpace human intelligence. What do these developments mean for the future of the mind?

In *Artificial You*, Susan Schneider says that it is inevitable that AI will take intelligence in new directions, but urges that it is up to us to carve out a sensible path forward. As AI technology turns inward, reshaping the brain, as well as outward, potentially creating machine minds, it is crucial to beware. Homo sapiens, as mind designers, will be playing with "tools" they do not understand how to use: the self, the mind, and consciousness. Schneider argues that an insufficient grasp of the nature of these entities could undermine the use of AI and brain enhancement technology, bringing about the demise or suffering of conscious beings. To flourish, we must grasp the philosophical issues lying beneath the algorithms.

At the heart of her exploration is a sober-minded discussion of what AI can truly achieve: Can robots really be conscious? Can we merge with AI, as tech leaders like Elon Musk and Ray Kurzweil suggest? Is the mind just a program? Examining these thorny issues, Schneider proposes ways we can test for machine consciousness, questions whether consciousness is an unavoidable byproduct of sophisticated intelligence, and considers the overall dangers of creating machine minds.

9780691180144
\$24.95 | £20.00
Hardback
192 pages | 139.7mm : 215.9mm
2019

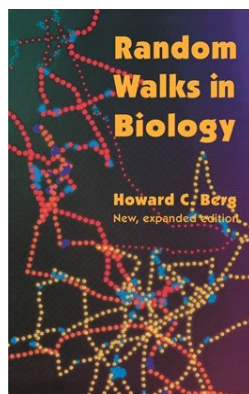
SCIENCE / Life Sciences
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The Neuroscience of Emotion
A New Synthesis

Ralph Adolphs, David J. Anderson

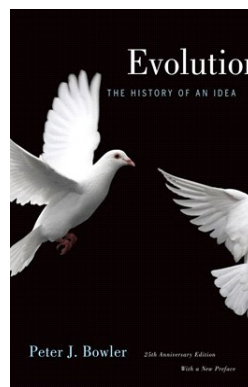
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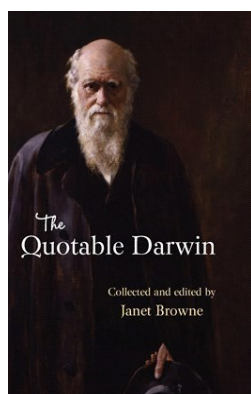
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Peter J. Bowler

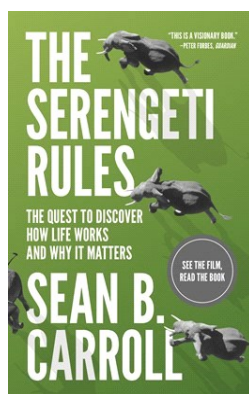
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Janet Browne

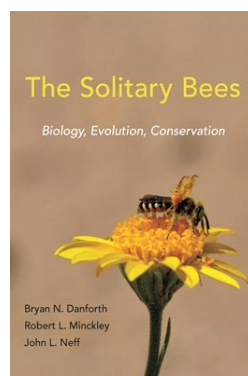
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Sean B. Carroll

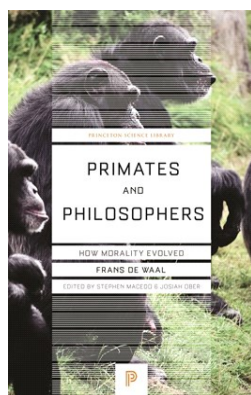
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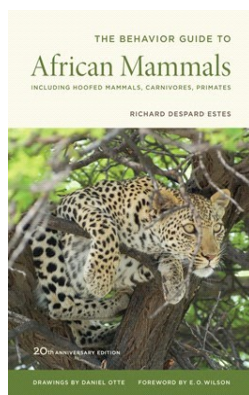
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Frans de Waal, Stephen Macedo, Josiah Ober

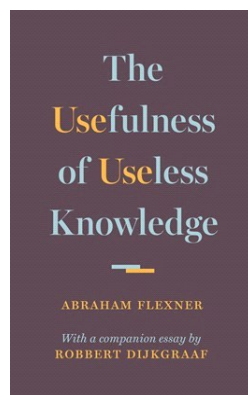
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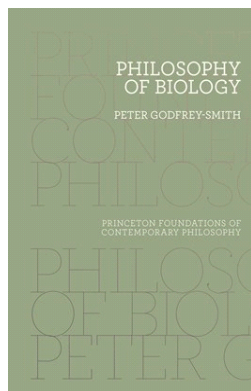
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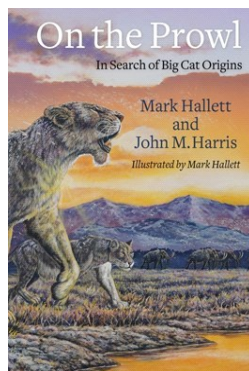
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Peter Godfrey-Smith

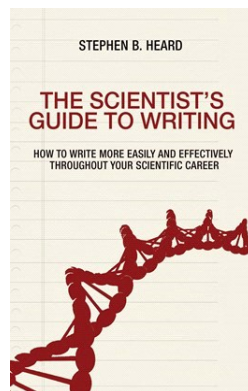
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Mark Hallett, John M. Harris

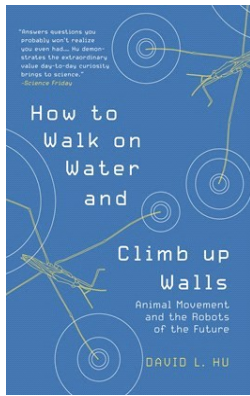
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Science
Columbia University Press



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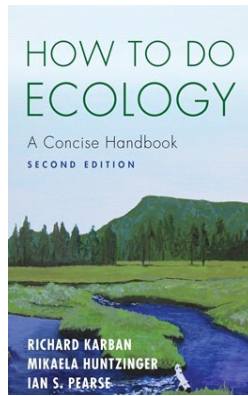


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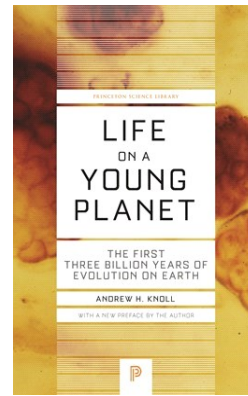


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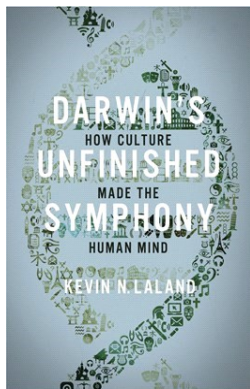


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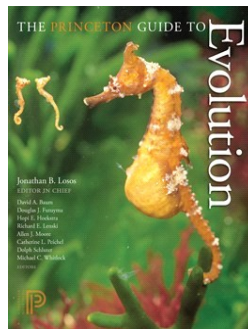


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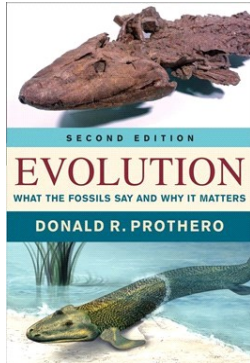


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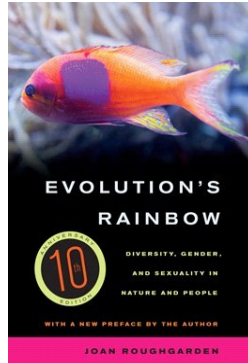


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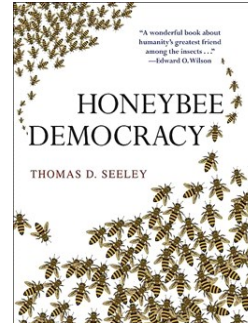


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Joan Roughgarden

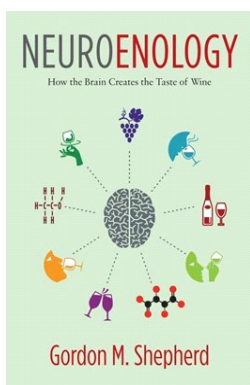
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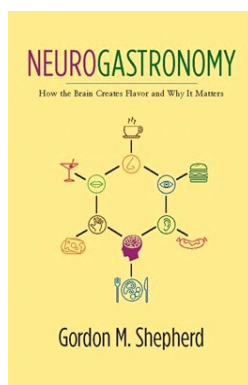


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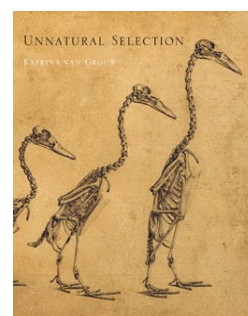


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