

# The Astonishing Hypothesis The Scientific Search For The Soul

Life Itself Quirk Contemplating Minds Science as a Way of Knowing The Alphabet That Changed the World The Fragile Brain Bright Air, Brilliant Fire Consciousness Astonishing Hypothesis What Is Your Dangerous Idea? Story-Based Inquiry: A Manual for Investigative Journalists Wider Than the Sky Consciousness Explained Mind Time The Feeling of Life Itself Out of Our Heads A History of the Mind On Intelligence Neurophysiology of Consciousness Neural Correlates of Consciousness The End of Darwinism Computing the Mind Science Set Free This Is Your Brain on Parasites Emergence Neural Darwinism The Quest for Consciousness The Astonishing Hypothesis Francis Crick Consciousness God: The Failed Hypothesis The Soul Hypothesis Of Molecules and Men The Claustrium The Soul Fallacy Rethinking Consciousness: A Scientific Theory of Subjective Experience What Mad Pursuit The Logic of Scientific Discovery Beyond Evolutionary Psychology The Consciousness Instinct

## Life Itself

The present day is witnessing an explosion of our understanding of how the brain works at all levels, in which complexity is piled on complexity, and mechanisms of astonishing elegance are being continually discovered. This process is most developed in the major areas of the brain, such as the

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cortex, thalamus, and striatum. The Claustrum instead focuses on a small, remote, and, until recently, relatively unknown area of the brain. In recent years, researchers have come to believe that the claustrum is concerned with consciousness, a bold hypothesis supported by the claustrum's two-way connections with nearly every other region of the brain and its seeming involvement with multisensory integrations—the hallmark of consciousness. The claustrum, previously in a humble position at the back of the stage, might in fact be the conductor of the brain's orchestra. The Claustrum brings together leading experts on the claustrum from the varied disciplines of neuroscience, providing a state-of-the-art presentation of what is currently known about the claustrum, promising lines of current research (including epigenetics), and projections of new lines of investigation on the horizon. Develops a unifying hypothesis about the claustrum's role in consciousness, as well as the integration of sensory information and other higher brain functions. Discusses the involvement of the claustrum with autism, schizophrenia, epilepsy, Alzheimer's disease, and Parkinson's disease Coverage of all aspects of the claustrum, from its evolution and development to promising new lines of research, including epigenetics, provides a platform and point of reference for future investigative efforts

### **Quirk**

“Engrossing ... [An] expedition through the hidden and sometimes horrifying microbial domain.” —Wall

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Street Journal “Fascinating—and full of the kind of factoids you can't wait to share.” —Scientific American Parasites can live only inside another animal and, as Kathleen McAuliffe reveals, these tiny organisms have many evolutionary motives for manipulating the behavior of their hosts. With astonishing precision, parasites can coax rats to approach cats, spiders to transform the patterns of their webs, and fish to draw the attention of birds that then swoop down to feast on them. We humans are hardly immune to their influence. Organisms we pick up from our own pets are strongly suspected of changing our personality traits and contributing to recklessness and impulsivity—even suicide. Germs that cause colds and the flu may alter our behavior even before symptoms become apparent. Parasites influence our species on the cultural level, too. Drawing on a huge body of research, McAuliffe argues that our dread of contamination is an evolved defense against parasites. The horror and revulsion we are programmed to feel when we come in contact with people who appear diseased or dirty helped pave the way for civilization, but may also be the basis for major divisions in societies that persist to this day. This Is Your Brain on Parasites is both a journey into cutting-edge science and a revelatory examination of what it means to be human. “If you’ve ever doubted the power of microbes to shape society and offer us a grander view of life, read on and find yourself duly impressed.” —Heather Havrilesky, Bookforum

### **Contemplating Minds**

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Throughout history, arguments for and against the existence of God have been largely confined to philosophy and theology, while science has sat on the sidelines. Despite the fact that science has revolutionized every aspect of human life and greatly clarified our understanding of the world, somehow the notion has arisen that it has nothing to say about the possibility of a supreme being, which much of humanity worships as the source of all reality. This book contends that, if God exists, some evidence for this existence should be detectable by scientific means, especially considering the central role that God is alleged to play in the operation of the universe and the lives of humans. Treating the traditional God concept, as conventionally presented in the Judeo-Christian and Islamic traditions, like any other scientific hypothesis, physicist Stenger examines all of the claims made for God's existence. He considers the latest Intelligent Design arguments as evidence of God's influence in biology. He looks at human behavior for evidence of immaterial souls and the possible effects of prayer. He discusses the findings of physics and astronomy in weighing the suggestions that the universe is the work of a creator and that humans are God's special creation. After evaluating all the scientific evidence, Stenger concludes that beyond a reasonable doubt the universe and life appear exactly as we might expect if there were no God. This paperback edition of the New York Times bestselling hardcover edition contains a new foreword by Christopher Hitchens and a postscript by the author in which he responds to reviewers' criticisms of the original edition.

## **Science as a Way of Knowing**

### **The Alphabet That Changed the World**

Interest in emergence amongst philosophers and scientists has grown in recent years, yet the concept continues to be viewed with skepticism by many. In this book, Paul Humphreys argues that many of the problems arise from a long philosophical tradition that is overly committed to synchronic reduction and has been overly focused on problems in philosophy of mind. He develops a novel account of diachronic ontological emergence called transformational emergence, shows that it is free of the problems raised against synchronic accounts, shows that there are plausible examples of transformational emergence within physics and chemistry, and argues that the central ideas fit into a well established historical tradition of emergence that includes John Stuart Mill, G.E. Moore, and C.D. Broad. The book also provides a comprehensive assessment of current theories of emergence and so can be used as a way into what is by now a very large literature on the topic. It places theories of emergence within a plausible classification, provides criteria for emergence, and argues that there is no single unifying account of emergence. Reevaluations of related topics in metaphysics are provided, including fundamentality, physicalism, holism, methodological individualism, and multiple realizability, among others. The relations between scientific and philosophical conceptions of emergence are assessed,

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with examples such as self-organization, ferromagnetism, cellular automata, and nonlinear systems being discussed. Although the book is written for professional philosophers, simple and intuitively accessible examples are used to illustrate the new concepts.

### **The Fragile Brain**

Candid, provocative, and disarming, this is the widely-praised memoir of the co-discoverer of the double helix of DNA.

### **Bright Air, Brilliant Fire**

Nobel Prize-winning neuroscientist, Dr. Gerald Edelman, offers an up-to-date account of the workings of the brain and the connections between mind and body. Edelman explores the relation of consciousness to causation, evolution, the development of the self, and the origins of feelings, learning, and memory, basing his discussion on recent advances in science and medicine.

### **Consciousness**

An argument that consciousness, more widespread than previously assumed, is the feeling of being alive, not a type of computation or a clever hack. In *The Feeling of Life Itself*, Christof Koch offers a straightforward definition of consciousness as any subjective experience, from the most mundane to the most exalted--the feeling of being alive. Psychologists

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study which cognitive operations underpin a given conscious perception. Neuroscientists track the neural correlates of consciousness in the brain, the organ of the mind. But why the brain and not, say, the liver? How can the brain, three pounds of highly excitable matter, a piece of furniture in the universe, subject to the same laws of physics as any other piece, give rise to subjective experience? Koch argues that what is needed to answer these questions is a quantitative theory that starts with experience and proceeds to the brain. In *The Feeling of Life Itself*, Koch outlines such a theory, based on integrated information. Koch describes how the theory explains many facts about the neurology of consciousness and how it has been used to build a clinically useful consciousness meter. The theory predicts that many, and perhaps all, animals experience the sights and sounds of life; consciousness is much more widespread than conventionally assumed. Contrary to received wisdom, however, Koch argues that programmable computers will not have consciousness. Even a perfect software model of the brain is not conscious. Its simulation is fake consciousness. Consciousness is not a special type of computation--it is not a clever hack. Consciousness is about being.

### **Astonishing Hypothesis**

This engrossing biography by one of molecular biology's foremost scholars reveals the remarkable evolution of Francis Crick's scientific career and insights into his personal life, from his early studies in biophysics, to the discovery of the structure of DNA,

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to his later work in neuroscience and the nature of consciousness.

### **What Is Your Dangerous Idea?**

Our subjective inner life is what really matters to us as human beings--and yet we know relatively little about how it arises. Over a long and distinguished career Benjamin Libet has conducted experiments that have helped us see, in clear and concrete ways, how the brain produces conscious awareness. For the first time, Libet gives his own account of these experiments and their importance for our understanding of consciousness. Most notably, Libet's experiments reveal a substantial delay--the mind time of the title--before any awareness affects how we view our mental activities. If all conscious awarenesses are preceded by unconscious processes, as Libet observes, we are forced to conclude that unconscious processes initiate our conscious experiences. Freely voluntary acts are found to be initiated unconsciously before an awareness of wanting to act--a discovery with profound ramifications for our understanding of free will. How do the physical activities of billions of cerebral nerve cells give rise to an integrated conscious subjective awareness? How can the subjective mind affect or control voluntary actions? Libet considers these questions, as well as the implications of his discoveries for the nature of the soul, the identity of the person, and the relation of the non-physical subjective mind to the physical brain that produces it. Rendered in clear, accessible language, Libet's

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experiments and theories will allow interested amateurs and experts alike to share the experience of the extraordinary discoveries made in the practical study of consciousness.

### **Story-Based Inquiry: A Manual for Investigative Journalists**

“The father of cognitive neuroscience” illuminates the past, present, and future of the mind-brain problem. How do neurons turn into minds? How does physical “stuff”—atoms, molecules, chemicals, and cells—create the vivid and various worlds inside our heads? The problem of consciousness has gnawed at us for millennia. In the last century there have been massive breakthroughs that have rewritten the science of the brain, and yet the puzzles faced by the ancient Greeks are still present. In *The Consciousness Instinct*, the neuroscience pioneer Michael S. Gazzaniga puts the latest research in conversation with the history of human thinking about the mind, giving a big-picture view of what science has revealed about consciousness. The idea of the brain as a machine, first proposed centuries ago, has led to assumptions about the relationship between mind and brain that dog scientists and philosophers to this day. Gazzaniga asserts that this model has it backward—brains make machines, but they cannot be reduced to one. New research suggests the brain is actually a confederation of independent modules working together. Understanding how consciousness could emanate from such an organization will help define the future of brain science and artificial

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intelligence, and close the gap between brain and mind. Captivating and accessible, with insights drawn from a lifetime at the forefront of the field, *The Consciousness Instinct* sets the course for the neuroscience of tomorrow.

### **Wider Than the Sky**

This influential book presents a new view of the function of the brain and nervous system.

### **Consciousness Explained**

In this lively and engaging book, the distinguished psychologist Nicholas Humphrey takes the reader on an exhilarating journey spanning millions of years -- in the search for clues to how human consciousness evolved. In *A History of the Mind* Humphrey proposes a radical new solution to the so-called "hard problem" that has baffled generations of philosophers and scientists -- how does the water of the brain yield the wine of conscious experience? Raw sensations are central to all conscious states, he argues, and he shows ingeniously how our physical and emotional self-awareness may have developed out of our primitive ancestors' bodily responses of pain and pleasure.

### **Mind Time**

Both the Nazis and the Communists seized upon survival of the fittest theory in order to justify their wars and genocides. Was the science as bad as the

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morality? the End of Darwinism reports that the history of Darwinism is full of deception, error, and politics: A series of famous biologists have appeared to support Darwin's explanation for biological change while not actually believing in it. Even Thomas Huxley, "Darwin's bulldog," privately rejected Darwin's principles of gradual transformation and survival of the fittest. But Huxley needed the money he could make writing on a controversial topic, and he had a grudge against the church. Huxley boasted that, against the church, evolution was his "Whitworth gun," an advanced firearm of the time. Textbooks have been infested with phony examples of natural selection. Most popular has been Darwin's explanation for the height of the giraffe. This is an absurd mistake stemming from the English scientist's ignorance of giraffes and their feeding habits. Nevertheless, it has been published for nearly 140 years--so desperate are the Darwinists for evidence. Another textbook falsehood more than a hundred years old is the claim of gills on the human embryo. Few biologists have the nerve to go against the science establishment by criticizing Darwinism in public. However, Lynn Margulis, the world's leading authority on microbial evolution, notes the lack of evidence and calls Darwinism a "religious sect." Ever since Charles Darwin was alive, mathematicians have criticized his theory as nonsensical. In 1966 a big international conference pitted mathematicians against leading evolutionary biologists. In 1980 a conference of 160 biologist decided that Darwinism does not explain major evolutionary events, but in order to thwart the creationists, the biologists organized an amazingly effective cover-up.

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## **The Feeling of Life Itself**

"Brilliant as audacious as its title. Mr. Dennett's exposition is nothing short of brilliant." --George Johnson, New York Times Book Review  
Consciousness Explained is a full-scale exploration of human consciousness. In this landmark book, Daniel Dennett refutes the traditional, commonsense theory of consciousness and presents a new model, based on a wealth of information from the fields of neuroscience, psychology, and artificial intelligence. Our current theories about conscious life--of people, animal, even robots--are transformed by the new perspectives found in this book.

## **Out of Our Heads**

The world's leading scientific thinkers explore bold, remarkable, perilous ideas that could change our lives—for better . . . or for worse . . . From Copernicus to Darwin, to current-day thinkers, scientists have always promoted theories and unveiled discoveries that challenge everything society holds dear; ideas with both positive and dire consequences. Many thoughts that resonate today are dangerous not because they are assumed to be false, but because they might turn out to be true. What do the world's leading scientists and thinkers consider to be their most dangerous idea? Through the leading online forum Edge ([www.edge.org](http://www.edge.org)), the call went out, and this compelling and easily digestible volume collects the answers. From using medication to permanently alter our personalities to contemplating a universe in

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which we are utterly alone, to the idea that the universe might be fundamentally inexplicable, *What Is Your Dangerous Idea?* takes an unflinching look at the daring, breathtaking, sometimes terrifying thoughts that could forever alter our world and the way we live in it. Contributors include Daniel C. Dennett • Jared Diamond • Brian Greene • Matt Ridley • Howard Gardner and Freeman Dyson, among others

### **A History of the Mind**

The author of *Dogs That Know When Their Owners Come Home* presents a radical reassessment of modern science that challenges 10 conventional views about a strictly material world, explaining how alternative perspectives can redefine approaches to 21st-century problems.

### **On Intelligence**

Neurodegenerative diseases, such as a stroke, Alzheimer's and dementia, are now tragically commonplace within the western world. Our brains are a strange and complex organ, and there is much to be discovered about what causes them to fail in such devastating ways. In this book Kathleen Taylor presents the ever-developing research into the cause and cure of these life-changing conditions, focusing on insights arising from the relatively new field of neuroimmunology - the increasing recognition of the important role of the immune system in the brain. Interweaving the latest scientific ideas on neurodegenerative diseases with accounts of the

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devastation which illnesses affecting the brain can cause to sufferers and to anyone who cares about them, *The Fragile Brain* is not only an important account of current research in this field, but a very personal study. As instances of dementia rise in our ageing populations, many harbour anxieties concerning the future. This book is about knowing the enemy.

### **Neurophysiology of Consciousness**

From the inventor of the PalmPilot comes a new and compelling theory of intelligence, brain function, and the future of intelligent machines. Jeff Hawkins, the man who created the PalmPilot, Treo smart phone, and other handheld devices, has reshaped our relationship to computers. Now he stands ready to revolutionize both neuroscience and computing in one stroke, with a new understanding of intelligence itself. Hawkins develops a powerful theory of how the human brain works, explaining why computers are not intelligent and how, based on this new theory, we can finally build intelligent machines. The brain is not a computer, but a memory system that stores experiences in a way that reflects the true structure of the world, remembering sequences of events and their nested relationships and making predictions based on those memories. It is this memory-prediction system that forms the basis of intelligence, perception, creativity, and even consciousness. In an engaging style that will captivate audiences from the merely curious to the professional scientist, Hawkins shows how a clear understanding of how the brain

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works will make it possible for us to build intelligent machines, in silicon, that will exceed our human ability in surprising ways. Written with acclaimed science writer Sandra Blakeslee, *On Intelligence* promises to completely transfigure the possibilities of the technology age. It is a landmark book in its scope and clarity.

### **Neural Correlates of Consciousness**

How does conscious experience arise out of the functioning of the human brain? How is it related to the behaviour that it accompanies? How does the perceived world relate to the real world? Between them, these three questions constitute what is commonly known as the Hard Problem of consciousness. Despite vast knowledge of the relationship between brain and behaviour, and rapid advances in our knowledge of how brain activity correlates with conscious experience, the answers to all three questions remain controversial, even mysterious. This important new book analyses these core issues and reviews the evidence from both introspection and experiment. To many its conclusions will be surprising and even unsettling:

- The entire perceived world is constructed by the brain. The relationship between the world we perceive and the underlying physical reality is not as close as we might think.
- Much of our behaviour is accomplished with little or no participation from conscious experience.
- Our conscious experience of our behaviour lags the behaviour itself by around a fifth of a second - we become aware of what we do

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only after we have done it. · The lag in conscious experience applies also to the decision to act - we only become aware of our decisions after they have been formed. · The self is as much a creation of the brain as is the rest of the perceived world. Written by a leading scientist, this analysis of how conscious experience relates to brain and behaviour is accessible and compelling. It will have major implications for our understanding of human nature.

### **The End of Darwinism**

Alva Noë is one of a new breed—part philosopher, part cognitive scientist, part neuroscientist—who are radically altering the study of consciousness by asking difficult questions and pointing out obvious flaws in the current science. In *Out of Our Heads*, he restates and reexamines the problem of consciousness, and then proposes a startling solution: Do away with the two hundred-year-old paradigm that places consciousness within the confines of the brain. Our culture is obsessed with the brain—how it perceives; how it remembers; how it determines our intelligence, our morality, our likes and our dislikes. It's widely believed that consciousness itself, that Holy Grail of science and philosophy, will soon be given a neural explanation. And yet, after decades of research, only one proposition about how the brain makes us conscious—how it gives rise to sensation, feeling, and subjectivity—has emerged unchallenged: We don't have a clue. In this inventive work, Noë suggests that rather than being something that happens inside us, consciousness is something we do. Debunking an

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outmoded philosophy that holds the scientific study of consciousness captive, *Out of Our Heads* is a fresh attempt at understanding our minds and how we interact with the world around us.

### **Computing the Mind**

Described by the philosopher A.J. Ayer as a work of 'great originality and power', this book revolutionized contemporary thinking on science and knowledge. Ideas such as the now legendary doctrine of 'falsificationism' electrified the scientific community, influencing even working scientists, as well as post-war philosophy. This astonishing work ranks alongside *The Open Society and Its Enemies* as one of Popper's most enduring books and contains insights and arguments that demand to be read to this day.

### **Science Set Free**

One place where the scientific debate has been written for a broad audience is in the book review column of the international journal *Artificial Intelligence*, which has evolved from simple reviews to a multidisciplinary forum where reviewers and authors debate the latest, often competing, theories of human and artificial intelligence.

### **This Is Your Brain on Parasites**

In which a scientist searches for an empirical explanation for phenomenal experience, spurred by his instinctual belief that life is meaningful. What links

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conscious experience of pain, joy, color, and smell to bioelectrical activity in the brain? How can anything physical give rise to nonphysical, subjective, conscious states? Christof Koch has devoted much of his career to bridging the seemingly unbridgeable gap between the physics of the brain and phenomenal experience. This engaging book--part scientific overview, part memoir, part futurist speculation--describes Koch's search for an empirical explanation for consciousness. Koch recounts not only the birth of the modern science of consciousness but also the subterranean motivation for his quest--his instinctual (if "romantic") belief that life is meaningful. Koch describes his own groundbreaking work with Francis Crick in the 1990s and 2000s and the gradual emergence of consciousness (once considered a "fringy" subject) as a legitimate topic for scientific investigation. Present at this paradigm shift were Koch and a handful of colleagues, including Ned Block, David Chalmers, Stanislas Dehaene, Giulio Tononi, Wolf Singer, and others. Aiding and abetting it were new techniques to listen in on the activity of individual nerve cells, clinical studies, and brain-imaging technologies that allowed safe and noninvasive study of the human brain in action. Koch gives us stories from the front lines of modern research into the neurobiology of consciousness as well as his own reflections on a variety of topics, including the distinction between attention and awareness, the unconscious, how neurons respond to Homer Simpson, the physics and biology of free will, dogs, Der Ring des Nibelungen, sentient machines, the loss of his belief in a personal God, and sadness. All of them are signposts in the pursuit of his life's

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work--to uncover the roots of consciousness.

## **Emergence**

In a culmination of humanity's millennia-long quest for self knowledge, the sciences of the mind are now in a position to offer concrete, empirically validated answers to the most fundamental questions about human nature. What does it mean to be a mind? How is the mind related to the brain? How are minds shaped by their embodiment and environment? What are the principles behind cognitive functions such as perception, memory, language, thought, and consciousness? By analyzing the tasks facing any sentient being that is subject to stimulation and a pressure to act, Shimon Edelman identifies computation as the common denominator in the emerging answers to all these questions. Any system composed of elements that exchange signals with each other and occasionally with the rest of the world can be said to be engaged in computation. A brain composed of neurons is one example of a system that computes, and the computations that the neurons collectively carry out constitute the brain's mind. Edelman presents a computational account of the entire spectrum of cognitive phenomena that constitutes the mind. He begins with sentience, and uses examples from visual perception to demonstrate that it must, at its very core, be a type of computation. Throughout his account, Edelman acknowledges the human mind's biological origins. Along the way, he also demystifies traits such as creativity, language, and individual and collective

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consciousness, and hints at how naturally evolved minds can transcend some of their limitations by moving to computational substrates other than brains. The account that Edelman gives in this book is accessible, yet unified and rigorous, and the big picture he presents is supported by evidence ranging from neurobiology to computer science. The book should be read by anyone seeking a comprehensive and current introduction to cognitive psychology.

### **Neural Darwinism**

This book presents a compelling unifying theory of which aspects of the brain are innate and which are not.

### **The Quest for Consciousness**

### **The Astonishing Hypothesis**

Consciousness is the major unsolved problem in biology. Written as an introduction to the field and drawing upon clinical, psychological and physiological observations, this book seeks to answer questions of consciousness within a neuroscientific framework.

### **Francis Crick**

This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and

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deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

### **Consciousness**

and made insignificant in practice, by selecting for study simple kinds of experiences which are devoid of emotional content and which can be tested for reliability. A simple somatosensory "raw feel" fulfills these characteristics (see papers nos. 2,5). In any case, if we fail to find ways to use introspective reports in convincingly acceptable studies we would give up the ability to investigate the relation between conscious experience and neural activity, something warned against by William James (Krech, 1969). Another factor in the dearth of direct experimental studies is, of course, the comparative inaccessibility of the human brain for such purposes. Meaningful investigations of the issue in question requires simultaneous study of brain events and introspective reports of experiences in an awake, cooperative human subject. Analysis by neuropsychologists of pathological lesions in the brain and the related disturbances of conscious functions have contributed much to mapping the possible representations of these functions. The non-invasive recording of electrical activity with electrodes on the scalp, starting from Berger's initial EEG recordings in 1929, has contributed much to the problems of states of consciousness and to various cognitive features associated with sensory inputs, but not as much to the specific issue of conscious experience.

## **God: The Failed Hypothesis**

### **The Soul Hypothesis**

Rabbinic tradition asserts that every letter of every word of the Torah is a word in itself. Author Stan Tenen demonstrates that each letter is also a hand gesture, and it is at this level that Hebrew forms a natural universal language. All people, including children before they speak and people without sight, make natural use of these gestures. In *The Alphabet That Changed the World*, Tenen examines the Hebrew text of Genesis and its relationship to the alphabet. He shows how each letter is both concept and gesture, with the form of the gesture matching the function of the concept. There is thus an implicit relationship between the physical world of function and the conscious world of concept. Using over 200 color illustrations, Tenen demonstrates geometric metaphor as the best framework for understanding the deepest meaning of the text. Such geometry models embryonic growth and self-organization and the core of many healing and meditative practices. Many subjects in contemporary science were derived from the methods and means available to the ancients; *The Alphabet That Changed the World* makes this authoritative recovery of the “science of consciousness” in Genesis accessible for the first time to the contemporary reading public.

### **Of Molecules and Men**

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"In his third lecture Crick anticipates events and trends that have in fact come to pass in the past four decades, including the increasing use of computer technology and robotics in mind-brain research, explorations into right-side versus left-side uses of the brain, and controversies surrounding the existence of the soul."--BOOK JACKET.

### **The Clastrum**

Readers will come to appreciate the strength and dignity of Berneta Ringer, a true Western heroine as Doig celebrates his mother's life after finding a cache of her letters, photographs, and childhood writings. It begins with her first winter living in a tent in Montana's Crazy Mountains to the ravages of the Depression on a ranch on Falkner Creek.

### **The Soul Fallacy**

The author takes the reader on a tour that covers such topics as computers, evolution, Descartes, Schrodinger, and the nature of perception, language, and individuality. He argues that biology provides the key to understanding the brain. Underlying his argument is the evolutionary view that the mind arose at a definite time in history. This book ponders connections between psychology and physics, medicine, philosophy, and more. Frequently contentious, Edelman attacks cognitive and behavioral approaches, which leave biology out of the picture, as well as the currently fashionable view of the brain as a computer.

## **Rethinking Consciousness: A Scientific Theory of Subjective Experience**

Who are you? It's the most fundamental of human questions. Are you the type of person who tilts at windmills, or the one who prefers to view them from the comfort of an air-conditioned motorcoach? Our personalities are endlessly fascinating—not just to ourselves but also to our spouses, our parents, our children, our co-workers, our neighbors. As a highly social species, humans have to navigate among an astonishing variety of personalities. But how did all these different permutations come about? And what purpose do they serve? With her trademark wit and sly humor, Hannah Holmes takes readers into the amazing world of personality and modern brain science. Using the Five Factor Model, which slices temperaments into the major factors (Extraversion, Neuroticism, Agreeableness, Conscientiousness, and Openness) and minor facets (such as impulsive, artistic, or cautious), Holmes demonstrates how our genes and brains dictate which factors and facets each of us displays. Are you a Nervous Nelly? Your amygdala is probably calling the shots. Hyperactive Hal? It's all about the dopamine. Each facet took root deep in the evolution of life on Earth, with Nature allowing enough personal variation to see a species through good times and bad. Just as there are introverted and extroverted people, there are introverted and extroverted mice, and even starfish. In fact, the personality genes we share with mice make them invaluable models for the study of disorders like depression, schizophrenia, and anxiety.

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Thus it is deep and ancient biases that guide your dealings with a very modern world. Your personality helps to determine the political party you support, the car you drive, the way you eat M&Ms, and the likelihood that you'll cheat on your spouse. Drawing on data from top research laboratories, the lives of her eccentric friends, the conflicts that plague her own household, and even the habits of her two pet mice, Hannah Holmes summarizes the factors that shape you. And what she proves is that it does take all kinds. Even the most irksome and trying personality you've ever encountered contributes to the diversity of our species. And diversity is the key to our survival.

### **What Mad Pursuit**

This book brings together an international group of neuroscientists and philosophers who are investigating how the content of subjective experience is correlated with events in the brain. The fundamental methodological problem in consciousness research is the subjectivity of the target phenomenon--the fact that conscious experience, under standard conditions, is always tied to an individual, first-person perspective. The core empirical question is whether and how physical states of the human nervous system can be mapped onto the content of conscious experience. The search for the neural correlates of consciousness (NCC) has become a highly active field of investigation in recent years. Methods such as single-cell recording in monkeys and brain imaging and electrophysiology in

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humans, applied to such phenomena as blindsight, implicit/explicit cognition, and binocular rivalry, have generated a wealth of data. The same period has seen the development of a number of theories about NCC location. This volume brings together the leading experimentalists and theoreticians in the field. Topics include foundational and evolutionary issues, global integration, vision, consciousness and the NMDA receptor complex, neuroimaging, implicit processes, intentionality and phenomenal volition, schizophrenia, social cognition, and the phenomenal self.

Contributors Jackie Andrade, Ansgar Beckermann, David J. Chalmers, Francis Crick, Antonio R. Damasio, Gerald M. Edelman, Dominic ffytche, Hans Flohr, N.P. Franks, Vittorio Gallese, Melvyn A. Goodale, Valerie Gray Hardcastle, Beena Khurana, Christof Koch, W.R. Lieb, Erik D. Lumer, Thomas Metzinger, Kelly J. Murphy, Romi Nijhawan, Joëlle Proust, Antti Revonsuo, Gerhard Roth, Thomas Schmidt, Wolf Singer, Giulio Tononi

### **The Logic of Scientific Discovery**

Neuroscientist and psychologist Michael S. A. Graziano puts forward a groundbreaking new theory on the origin of consciousness. Focusing attention can help an animal find food or flee a predator. It also may have led to consciousness. Tracing evolution over millions of years, Michael S. A. Graziano uses examples from the natural world to show how neurons first allowed animals to develop simple forms of attention: taking in messages from the environment, prioritizing them, and responding as

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necessary. Then some animals evolved covert attention—a roving mental focus that can take in information apart from where the senses are pointed, like hearing sirens at a distance or recalling a memory. Graziano proposes that in order to monitor and control this specialized attention, the brain evolved a simplified model of it—a cartoonish self-description depicting an internal essence with a capacity for knowledge and experience. In other words, consciousness. In this eye-opening work drawn from his and other scientists' experiments, Graziano accessibly explores how this sense of an inner being led to empathy and formed us into social beings. The theory may point the way to engineers for building consciousness artificially, and even someday taking the natural consciousness of a person and uploading it into a machine for a digital afterlife. Graziano discusses what a future with artificial conscious might be like, including both advantages and risks, and what AI might mean for our evolutionary future.

### **Beyond Evolutionary Psychology**

Most Americans believe they possess an immaterial soul that will survive the death of the body. In sharp contrast, the current scientific consensus rejects the traditional soul, although this conclusion is rarely discussed publicly. In this book, a cognitive scientist breaks the taboo and explains why modern science leads to this controversial conclusion. In doing so, the book reveals the truly astonishing scope and power of scientific inquiry, drawing on ideas from biology, psychology, neuroscience, philosophy, and the

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physical sciences. Much more than chronicling the demise of the traditional soul, the book explores where soul beliefs come from, why they are so widespread culturally and historically, how cognitive science offers a naturalistic alternative to religious conceptions of mind, and how postulating the existence of a soul amounts to making a scientific claim. Although the new scientific view of personhood departs radically from traditional religious conceptions, the author shows that a coherent, meaningful, and sensitive appreciation of what it means to be human remains intact. He argues that we do not lose anything by letting go of our soul beliefs and that we even have something to gain. Throughout, the book takes a passionate stand for science and reason. It also offers a timely rejoinder to recent claims that science supports the existence of the soul and the afterlife.

### **The Consciousness Instinct**

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