

Phantoms In The Brain

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The Disordered Mind - Eric R. Kandel 2018-08-28
A Nobel Prize-winning neuroscientist's probing
investigation of what brain disorders can tell us

about human nature Eric R. Kandel, the winner of
the Nobel Prize in Physiology or Medicine for his
foundational research into memory storage in the

brain, is one of the pioneers of modern brain science. His work continues to shape our understanding of how learning and memory work and to break down age-old barriers between the sciences and the arts. In his seminal new book, *The Disordered Mind*, Kandel draws on a lifetime of pathbreaking research and the work of many other leading neuroscientists to take us on an unusual tour of the brain. He confronts one of the most difficult questions we face: How does our mind, our individual sense of self, emerge from the physical matter of the brain? The brain's 86 billion neurons communicate with one another

through very precise connections. But sometimes those connections are disrupted. The brain processes that give rise to our mind can become disordered, resulting in diseases such as autism, depression, schizophrenia, Parkinson's, addiction, and post-traumatic stress disorder. While these disruptions bring great suffering, they can also reveal the mysteries of how the brain produces our most fundamental experiences and capabilities—the very nature of what it means to be human. Studies of autism illuminate the neurological foundations of our social instincts; research into depression offers important insights

on emotions and the integrity of the self; and paradigm-shifting work on addiction has led to a new understanding of the relationship between pleasure and willpower. By studying disruptions to typical brain functioning and exploring their potential treatments, we will deepen our understanding of thought, feeling, behavior, memory, and creativity. Only then can we grapple with the big question of how billions of neurons generate consciousness itself.

Phantoms in the Brain - 2005

Hallucinations - Oliver Sacks 2012-11-06

“Illuminate[s] the complexities of the human brain and the mysteries of the human mind.” –The New York Times To many people, hallucinations imply madness, but in fact they are a common part of the human experience. These sensory distortions range from the shimmering zigzags of a visual migraine to powerful visions brought on by fever, injuries, drugs, sensory deprivation, exhaustion, or even grief. Hallucinations doubtless lie behind many mythological traditions, literary inventions, and religious epiphanies. Drawing on his own experiences, a wealth of clinical cases from among his patients, and

famous historical examples ranging from Dostoevsky to Lewis Carroll, the legendary neurologist Oliver Sacks investigates the mystery of these sensory deceptions: what they say about the working of our brains, how they have influenced our folklore and culture, and why the potential for hallucination is present in us all.

Descartes' Error - Antonio Damasio 2005-09-27

Since Descartes famously proclaimed, "I think, therefore I am," science has often overlooked emotions as the source of a person's true being. Even modern neuroscience has tended, until recently, to concentrate on the cognitive aspects

of brain function, disregarding emotions. This attitude began to change with the publication of *Descartes' Error* in 1995. Antonio Damasio—"one of the world's leading neurologists" (The New York Times)—challenged traditional ideas about the connection between emotions and rationality. In this wondrously engaging book, Damasio takes the reader on a journey of scientific discovery through a series of case studies, demonstrating what many of us have long suspected: emotions are not a luxury, they are essential to rational thinking and to normal social behavior.

Phantoms in the Brain - V. S. Ramachandran

2012

Brain Storm - Richard Dooling 2012-12-19

Attorney Joe Watson had never been to court except to be sworn in. He did legal research, investigating copyright infringement in video games (addressing such matters as: Did CarnageMaster plagiarize their beheading sequence from Greek SlaughterHouse?). He was a Webhead, a cybernerd doing support work for the lawyers in his firm who did go to court. And he was good at it. He was on track to become one of the youngest partners in the firm, and he

was able--by a hair--to support his wife and children in an affluent neighborhood. Then he got notice that the tyrannical Judge Whittaker J. Stang had appointed him to defend James Whitlow, a small-time lowlife with a long rap sheet accused of a double hate crime: killing his wife's deaf black lover. When Watson stubbornly decides not to plead out his client, he is soon evicted from his comfortable life: His boss fires him, his wife leaves him and takes the children, and the Whitlow case begins to consume all of his time. He has only two allies--Rachel Palmquist, a beautiful, brainy neuroscientist with

her own designs on his client and on Watson himself, and Myrna Schweich, a punk criminal-defense lawyer with orange hair who swears like a trooper and definitely inhales. Watson's finished. Or is he? To answer that question requires, among many other things, a brain scan for Watson in a state of strapped-down arousal, a Voice Transcription Device to eavesdrop on a dead deaf man's conversation, two chimpanzees who have no choice but to love each other, and a blind news vendor who demonstrates a real touch when it comes to making money. For all the Dickensian energy and humor of this ingenious

story, *Brain Storm* also stands at the center of many modern controversies, from the death penalty and the circus atmosphere of criminal trials to neuroscientific and moral quandaries about sex, crime, and religion. Rachel tells Watson that free will is a fiction: "There's not much you can do about it if you're biologically predisposed to violence or sexual misbehavior. You just have to make the best of it, and try not to get caught." Once a deliberate yes-man at home and in the office, Joe Watson finds himself fighting not only to save his marriage and his career but also to hold intact his conviction that a

person is more than a series of chemical reactions.

The Skeleton Cupboard - Tanya Byron

2015-04-07

In my session with Imogen, the words were still not coming. I had to move past my own frustration and relax. But it is very hard to relax when you are looking into the eyes of a mute little girl who wants to be dead. You don't want to relax; you want to pull her into your arms, hold her and then shake her until she tells you why. You long to say, "Why do you want to die? You're twelve years old." Gripping, unforgettable

and deeply affecting, The Skeleton Cupboard recounts the patient stories that most influenced Dr. Tanya Byron, covering years of training that forced her to confront the harsh realities of the lives of her patients and the demons of her own family history. Among others, we meet Ray, a violent sociopath desperate to be treated with tenderness and compassion; Mollie, a talented teenager intent on starving herself; and Imogen, a twelve-year-old so haunted by a secret that she's intent on killing herself. Byron brings the reader along as she uncovers the reasons each of these individuals behave as they do, resulting in a

thrilling, compulsively readable medical mystery that sheds light on mental illness and what its treatment tells us about ourselves.

Reaching Down the Rabbit Hole - Dr. Allan H. Ropper 2014-09-30

"Tell the doctor where it hurts." It sounds simple enough, unless the problem affects the very organ that produces awareness and generates speech. What is it like to try to heal the body when the mind is under attack? In this book, Dr. Allan Ropper and Brian Burrell take the reader behind the scenes at Harvard Medical School's neurology unit to show how a seasoned

diagnostician faces down bizarre, life-altering afflictions. Like Alice in Wonderland, Dr. Ropper inhabits a world where absurdities abound: • A figure skater whose body has become a ticking time-bomb • A salesman who drives around and around a traffic rotary, unable to get off • A college quarterback who can't stop calling the same play • A child molester who, after falling on the ice, is left with a brain that is very much dead inside a body that is very much alive • A mother of two young girls, diagnosed with ALS, who has to decide whether a life locked inside her own head is worth living How does one begin to treat

such cases, to counsel people whose lives may be changed forever? How does one train the next generation of clinicians to deal with the moral and medical aspects of brain disease? Dr. Ropper and his colleague answer these questions by taking the reader into a rarified world where lives and minds hang in the balance.

The Phantom Tollbooth - Norton Juster

1988-10-12

With almost 5 million copies sold 60 years after its original publication, generations of readers have now journeyed with Milo to the Lands Beyond in this beloved classic. Enriched by Jules

Feiffer's splendid illustrations, the wit, wisdom, and wordplay of Norton Juster's offbeat fantasy are as beguiling as ever. "Comes up bright and new every time I read it . . . it will continue to charm and delight for a very long time yet. And teach us some wisdom, too." --Phillip Pullman

For Milo, everything's a bore. When a tollbooth mysteriously appears in his room, he drives through only because he's got nothing better to do. But on the other side, things seem different. Milo visits the Island of Conclusions (you get there by jumping), learns about time from a ticking watchdog named Tock, and even embarks

on a quest to rescue Rhyme and Reason.

Somewhere along the way, Milo realizes something astonishing. Life is far from dull. In fact, it's exciting beyond his wildest dreams!

The Emerging Mind - V. S. Ramachandran 2003

A scintillating introduction to the latest thinking on the brain and the mind by the world's leading expert. Neuroscience can now begin to unlock the key to the self. Our knowledge of the brain has progressed so rapidly that it will change the way we think of ourselves as human beings. It will change our notion of understanding. This is a revolution which will have impact on all our lives.

Neuroscientists are gathering new empirical evidence about consciousness and human nature; they are picking up where the great earlier thinkers like Freud, Darwin, Charcot and others began. This evidence begins to give substance to some of the grand statements and intuitive leaps made in the nineteenth and early twentieth century about the nature of the self.

Foundational Concepts in Neuroscience: A Brain-Mind Odyssey (Norton Series on Interpersonal Neurobiology) - David E. Presti 2015-12-14

Key concepts in neuroscience presented for the non-medical reader. A fresh take on

contemporary brain science, this book presents neuroscience—the scientific study of brain, mind, and behavior—in easy-to-understand ways with a focus on concepts of interest to all science readers. Rigorous and detailed enough to use as a textbook in a university or community college class, it is at the same time meant for any and all readers, clinicians and non-clinicians alike, interested in learning about the foundations of contemporary brain science. From molecules and cells to mind and consciousness, the known and the mysterious are presented in the context of the history of modern biology and with an eye toward

better appreciating the beauty and growing public presence of brain science.

On Intelligence - Jeff Hawkins 2007-04-01

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 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.

The 7 Laws of Magical Thinking - Matthew Hutson
2012-04-12

In this witty and perceptive debut, a former editor at *Psychology Today* shows us how magical thinking makes life worth living. Psychologists

have documented a litany of cognitive biases- misperceptions of the world-and explained their positive functions. Now, Matthew Hutson shows us that even the most hardcore skeptic indulges in magical thinking all the time-and it's crucial to our survival. Drawing on evolution, cognitive science, and neuroscience, Hutson shows us that magical thinking has been so useful to us that it's hardwired into our brains. It encourages us to think that we actually have free will. It helps make us believe that we have an underlying purpose in the world. It can even protect us from the paralyzing awareness of our own mortality. In

other words, magical thinking is a completely irrational way of making our lives make rational sense. With wonderfully entertaining stories, personal reflections, and sharp observations, Hutson reveals our deepest fears and longings. He also assures us that it is no accident his surname contains so many of the same letters as this imprint.

Neuroscience for Counselors and Therapists -

Chad Luke 2015-04-15

Neuroscience for Counselors and Therapists by Chad Luke provides an accessible overview of the structure and function of the human brain,

including how the brain influences and is influenced by biology, environment, and experiences. Full of practical applications, this cutting-edge book explores the relationships between recent neuroscience findings and counseling theories and then uses these integrated results to address four categories of common life disturbances: anxiety, depression, stress, and addictions. The book's case-based approach helps readers understand the language of neuroscience and learn how neuroscience research can enhance their understanding of human thought, feeling, and behaviors.

The Little Book of Psychology - Emily Ralls

2021-10-05

If you want to know your Freud from your Jung and your Milgram from your Maslow, strap in for this whirlwind tour of the highlights of psychology. Including accessible primers on: The early thinkers who contributed to psychological ideas and the birth of modern psychology Famous (and often controversial) experiments and their repercussions What psychology can teach us about memory, language, conformity, reasoning and emotions The ethics of psychological studies Recent developments in the modern fields of

evolutionary and cyber psychology. This illuminating little book will introduce you to the key thinkers, themes and theories you need to know to understand how the study of mind and behavior has sculpted the world we live in and the way we think today.

The Spiritual Doorway in the Brain - Kevin Nelson
2010-12-30

The world's leading neurologist on out-of-body and near-death experiences shows that spirituality is as much a part of our basic biological makeup as our sex drive or survival instinct. If Buddha had been in an MRI machine and not under the

Bodhi tree when he attained enlightenment, what would we have seen on the monitor? Dr. Kevin Nelson offers an answer to that question that is beyond what any scientist has previously encountered on the borderlands of consciousness. In his cutting-edge research, Nelson has discovered that spiritual experiences take place in one of the most primitive areas of the brain. In this eloquent, inspired, and reverent book, he relates the moving stories of patients and research subjects, brain scan analysis, evolutionary biology, and beautiful examples of transcendence from literature to reveal the

machinery in our heads that enables us to perceive miracles-whether you are an atheist, Buddhist, or the most devout Catholic. The patients and people Nelson discuss have had an extremely diverse set of spiritual experiences, from arguing with the devil sitting at the foot of their hospital bed to seeing the universe synchronize around the bouncing of the ball in a pinball machine. However, the bizarre experiences don't make the people seem like freaks; they seem strangely very much like us, in surprising ways. Ultimately Nelson makes clear that spiritual experiences are not the exception in

human life, but rather an inescapable and precious part of every one of us.

Tall Tales about the Mind and Brain - Sergio Della Sala 2007

Does listening to Mozart make us more intelligent? Does the size of the brain matter? Can we communicate with the dead? This book presents a survey of common myths about the mind & brain. It exposes the truth behind these beliefs, how they are perpetuated, why people believe them, & why they might even exist in the first place.

Cognitive Neuroscience - R. E. Passingham 2016

This volume describes the new field of cognitive neuroscience - the study of what happens in the brain when we perceive, think, reason, remember, and act. Focusing on the human brain, Passingham looks at the most recent research in the field, the modern brain imaging technologies, and what the images can and can't tell us.

Mind Wide Open - Steven Johnson 2004-02-27
BRILLIANTLY EXPLORING TODAY'S CUTTING-
EDGE BRAIN RESEARCH, MIND WIDE OPEN
IS AN UNPRECEDENTED JOURNEY INTO THE
ESSENCE OF HUMAN PERSONALITY,
ALLOWING READERS TO UNDERSTAND

THEMSELVES AND THE PEOPLE IN THEIR
LIVES AS NEVER BEFORE. Using a mix of
experiential reportage, personal storytelling, and
fresh scientific discovery, Steven Johnson
describes how the brain works -- its chemicals,
structures, and subroutines -- and how these
systems connect to the day-to-day realities of
individual lives. For a hundred years, he says,
many of us have assumed that the most powerful
route to self-knowledge took the form of lying on
a couch, talking about our childhoods. The
possibility entertained in this book is that you can
follow another path, in which learning about the

brain's mechanics can widen one's self-awareness as powerfully as any therapy or meditation or drug. In *Mind Wide Open*, Johnson embarks on this path as his own test subject, participating in a battery of attention tests, learning to control video games by altering his brain waves, scanning his own brain with a \$2 million fMRI machine, all in search of a modern answer to the oldest of questions: who am I? Along the way, Johnson explores how we "read" other people, how the brain processes frightening events (and how we might rid ourselves of the scars those memories leave), what the

neurochemistry is behind love and sex, what it means that our brains are teeming with powerful chemicals closely related to recreational drugs, why music moves us to tears, and where our breakthrough ideas come from. Johnson's clear, engaging explanation of the physical functions of the brain reveals not only the broad strokes of our aptitudes and fears, our skills and weaknesses and desires, but also the momentary brain phenomena that a whole human life comprises. Why, when hearing a tale of woe, do we sometimes smile inappropriately, even if we don't want to? Why are some of us so bad at

remembering phone numbers but brilliant at recognizing faces? Why does depression make us feel stupid? To read *Mind Wide Open* is to rethink family histories, individual fates, and the very nature of the self, and to see that brain science is now personally transformative -- a valuable tool for better relationships and better living.

Brain and Human Body Modeling 2020 - Sergey N. Makarov 2020

The 41st Annual International Conference of the IEEE EMBS, took place between July 23 and 27, 2019, in Berlin, Germany. The focus was on

"Biomedical engineering ranging from wellness to intensive care." This conference provided an opportunity for researchers from academia and industry to discuss a variety of topics relevant to EMBS and hosted the 4th Annual Invited Session on Computational Human Models. At this session, a bevy of research related to the development of human phantoms was presented, together with a substantial variety of practical applications explored through simulation.

Phantom Stress - Phillip Romero 2010-04

Phantom Stress : Brain Training to Master Relationship Stress introduces the reader to

Logosoma Brain Training, a four-step practice that liberates one from the stresses that cause self-sabotaging patterns of thought, emotion and behavior and undo secure relationships. Phantom Stress is rooted in adverse childhood experiences or past stresses from adult life. These phantoms memories eclipse appropriate responses to life in the present and derail healthy self awareness, disrupt secure boundaries, and destroy positive emotional connections. This book teaches readers how to track down and neutralize toxic memories that produce phantom stress, and open new brain pathways to reconnecting with others

for creative adaptive resilience to stress lasting love and compassion.

Black-and-White Thinking - Kevin Dutton

2021-01-05

A groundbreaking and timely book about how evolutionary biology can explain our black-and-white brains, and a lesson in how we can escape the pitfalls of binary thinking. Several million years ago, natural selection equipped us with binary, black-and-white brains. Though the world was arguably simpler back then, it was in many ways much more dangerous. Not coincidentally, the binary brain was highly adept at detecting risk:

the ability to analyze threats and respond to changes in the sensory environment—a drop in temperature, the crack of a branch—was essential to our survival as a species. Since then, the world has evolved—but we, for the most part, haven’t. Confronted with a panoply of shades of gray, our brains have a tendency to “force quit:” to sort the things we see, hear, and experience into manageable but simplistic categories. We stereotype, pigeon-hole, and, above all, draw lines where in reality there are none. In our modern, interconnected world, it might seem like we are ill-equipped to deal with the challenges we

face—that living with a binary brain is like trying to navigate a teeming city center with a map that shows only highways. In *Black-and-White Thinking*, the renowned psychologist Kevin Dutton pulls back the curtains of the mind to reveal a new way of thinking about a problem as old as humanity itself. While our instinct for categorization often leads us astray, encouraging polarization, rigid thinking, and sometimes outright denialism, it is an essential component of the mental machinery we use to make sense of the world. Simply put, unless we perceived our environment as a chessboard, our brains wouldn’t

be able to play the game. Using the latest advances in psychology, neuroscience, and evolutionary biology, Dutton shows how we can optimize our tendency to categorize and fine-tune our minds to avoid the pitfalls of too little, and too much, complexity. He reveals the enduring importance of three “super categories”—fight or flight, us versus them, and right or wrong—and argues that they remain essential to not only convincing others to change their minds but to changing the world for the better. *Black-and-White Thinking* is a scientifically informed wake-up call for an era of increasing extremism and a

thought-provoking, uplifting guide to training our gray matter to see that gray really does matter.

The Tell-Tale Brain - V. S. Ramachandran

2012-04-05

John, aged sixty, suffered a stroke and recovered fully, except in one respect: although he can see perfectly, he can no longer recognise faces, even his own reflection in a mirror. Whenever Francesca touches a particular texture, she experiences a vivid emotion: denim = extreme sadness; wax = embarrassment; orange peel = shock. Jimmie, whose left arm was recently amputated, can still feel it - and it's itchy. Our

brains are the most enchanting and complex things in the known universe - but what happens when they go wrong? Dr V. S. Ramachandran, 'the Sherlock Holmes of brain science' and one of the world's leading neuroscientists, has spent a lifetime working with patients who suffer from rare and baffling brain conditions. In *The Tell-Tale Brain*, he tells their stories, and explores what they reveal about the greatest mystery of them all: how our minds work, and what makes each of us so uniquely human.

Quantitative MRI of the Brain - Paul Tofts

2005-08-19

2004 BMA Medical Book Competition Winner (Radiology category) "This is an exciting book, with a new approach to use of the MRI scanner. It bridges the gap between clinical research and general neuro-radiological practice. It is accessible to the clinical radiologist, and yet thorough in its treatment of the underlying physics and of the science of measurement. It is likely to become a classic." British Medical Association This indispensable 'how to' manual of quantitative MR is essential for anyone who wants to use the gamut of modern quantitative methods to measure the effects of neurological disease, its

progression, and its response to treatment. It contains both the methodology and clinical applications, reflecting the increasing interest in quantitative MR in studying disease and its progression. The editor is an MR scientist with an international reputation for high quality research. The contributions are written jointly by MR physicists and MR clinicians, producing a practical book for both the research and medical communities. A practical book for both the research and medical communities. "Paul Tofts has succeeded brilliantly in capturing the essence of what needs to become the future of radiology

in particular, and medicine in general – quantitative measurements of disease." Robert I. Grossman, M.D. New York, University School of Medicine (from the Foreword)

The Brain That Changes Itself - Norman Doidge
2007-03-15

"Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of *The Man Who Mistook His Wife for a Hat* What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more

An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain.

Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders

cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed.

Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

Phantoms in the Brain - V. S. Ramachandran
1999-08-18

Neuroscientist V.S. Ramachandran is internationally renowned for uncovering answers to the deep and quirky questions of human nature that few scientists have dared to address. His bold insights about the brain are matched only by the stunning simplicity of his experiments -- using such low-tech tools as cotton swabs, glasses of water and dime-store mirrors. In *Phantoms in the Brain*, Dr. Ramachandran recounts how his work with patients who have bizarre neurological disorders has shed new light on the deep architecture of the brain, and what these findings tell us about who we are, how we construct our

body image, why we laugh or become depressed, why we may believe in God, how we make decisions, deceive ourselves and dream, perhaps even why we're so clever at philosophy, music and art. Some of his most notable cases: A woman paralyzed on the left side of her body who believes she is lifting a tray of drinks with both hands offers a unique opportunity to test Freud's theory of denial. A man who insists he is talking with God challenges us to ask: Could we be "wired" for religious experience? A woman who hallucinates cartoon characters illustrates how, in a sense, we are all hallucinating, all the

time. Dr. Ramachandran's inspired medical detective work pushes the boundaries of medicine's last great frontier -- the human mind -- yielding new and provocative insights into the "big questions" about consciousness and the self.

Phantoms in the Brain - V. S. Ramachandran
1998

The Story of Psychology - Morton Hunt
2009-09-16

Socrates, Plato, Descartes, Spinoza, Mesmer, William James, Pavlov, Freud, Piaget, Erikson, and Skinner. Each of these thinkers recognized

that human beings could examine, comprehend, and eventually guide or influence their own thought processes, emotions, and resulting behavior. The lives and accomplishments of these pillars of psychology, expertly assembled by Morton Hunt, are set against the times in which the subjects lived. Hunt skillfully presents dramatic and lucid accounts of the techniques and validity of centuries of psychological research, and of the methods and effectiveness of major forms of psychotherapy. Fully revised, and incorporating the dramatic developments of the last fifteen years, *The Story of Psychology* is

a graceful and absorbing chronicle of one of the great human inquiries—the search for the true causes of our behavior.

Phantoms - Dean Koontz 2002-02-05

“Phantoms is gruesome and unrelenting...It’s well realized, intelligent, and humane.”—Stephen King

They found the town silent, apparently abandoned. Then they found the first body, strangely swollen and still warm. One hundred fifty were dead, 350 missing. But the terror had only begun in the tiny mountain town of Snowfield, California. At first they thought it was the work of a maniac. Or terrorists. Or toxic

contamination. Or a bizarre new disease. But then they found the truth. And they saw it in the flesh. And it was worse than anything any of them had ever imagined...

A Brief Tour of Human Consciousness - V. S. Ramachandran 2004

"How can people come to believe that their poodle is an impostor? Or see colors in numbers? Francis Crick, co-discoverer of DNA, said of V. S. Ramachandran's first book, "The patients he describes are fascinating, and his experiments on them are both simple and ingenious." With his unique energy and style Ramachandran now

shares his insights into the mind from such everyday human experiences as pain, sight, and the appreciation of beauty to the ultimate philosophical conundrums of consciousness."--

BOOK JACKET.

Magnetic Resonance Elastography - Sudhakar K. Venkatesh 2014-10-01

The first book to cover the groundbreaking development and clinical applications of Magnetic Resonance Elastography, this book is essential for all practitioners interested in this revolutionary diagnostic modality. The book is divided into three sections. The first covers the history of MRE. The

second covers technique and clinical applications of MRE in the liver with respect to fibrosis, liver masses, and other diseases. Case descriptions are presented to give the reader a hands-on approach. The final section presents the techniques, sequence and preliminary results of applications in other areas of the body including muscle, brain, lung, heart, and breast.

We Have Never Been Modern - Bruno Latour 2012-11-01

With the rise of science, we moderns believe, the world changed irrevocably, separating us forever from our primitive, premodern ancestors. But if we

were to let go of this fond conviction, Bruno Latour asks, what would the world look like? His book, an anthropology of science, shows us how much of modernity is actually a matter of faith. What does it mean to be modern? What difference does the scientific method make? The difference, Latour explains, is in our careful distinctions between nature and society, between human and thing, distinctions that our benighted ancestors, in their world of alchemy, astrology, and phrenology, never made. But alongside this purifying practice that defines modernity, there exists another seemingly contrary one: the

construction of systems that mix politics, science, technology, and nature. The ozone debate is such a hybrid, in Latour's analysis, as are global warming, deforestation, even the idea of black holes. As these hybrids proliferate, the prospect of keeping nature and culture in their separate mental chambers becomes overwhelming—and rather than try, Latour suggests, we should rethink our distinctions, rethink the definition and constitution of modernity itself. His book offers a new explanation of science that finally recognizes the connections between nature and culture—and so, between our culture and others, past and

present. Nothing short of a reworking of our mental landscape. *We Have Never Been Modern* blurs the boundaries among science, the humanities, and the social sciences to enhance understanding on all sides. A summation of the work of one of the most influential and provocative interpreters of science, it aims at saving what is good and valuable in modernity and replacing the rest with a broader, fairer, and finer sense of possibility.

The Mystery of the Exploding Teeth - Thomas Morris 2019-11-12

"Delightfully horrifying."--Popular Science This

wryly humorous collection of stories about bizarre medical treatments and cases offers a unique portrait of a bygone era in all its jaw-dropping weirdness. A puzzling series of dental explosions beginning in the nineteenth century is just one of many strange tales that have long lain undiscovered in the pages of old medical journals. Award-winning medical historian Thomas Morris delivers one of the most remarkable, cringe-inducing collections of stories ever assembled. Witness *Mysterious Illnesses* (such as the Rhode Island woman who peed through her nose), *Horrifying Operations* (1781: A French

soldier in India operates on his own bladder stone), Tall Tales (like the "amphibious infant" of Chicago, a baby that could apparently swim underwater for half an hour), Unfortunate Predicaments (such as that of the boy who honked like a goose after inhaling a bird's larynx), and a plethora of other marvels. Beyond a series of anecdotes, these painfully amusing stories reveal a great deal about the evolution of modern medicine. Some show the medical profession hopeless in the face of ailments that today would be quickly banished by modern drugs; but others are heartening tales of recovery against the odds,

patients saved from death by the devotion or ingenuity of a conscientious doctor. However embarrassing the ailment or ludicrous the treatment, every case in *The Mystery of the Exploding Teeth* tells us something about the knowledge (and ignorance) of an earlier age, along with the sheer resilience of human life. *How We Learn* - Benedict Carey 2014-09-09 In the tradition of *The Power of Habit* and *Thinking, Fast and Slow* comes a practical, playful, and endlessly fascinating guide to what we really know about learning and memory today—and how we can apply it to our own lives.

From an early age, it is drilled into our heads: Restlessness, distraction, and ignorance are the enemies of success. We're told that learning is all self-discipline, that we must confine ourselves to designated study areas, turn off the music, and maintain a strict ritual if we want to ace that test, memorize that presentation, or nail that piano recital. But what if almost everything we were told about learning is wrong? And what if there was a way to achieve more with less effort? In *How We Learn*, award-winning science reporter Benedict Carey sifts through decades of education research and landmark studies to uncover the

truth about how our brains absorb and retain information. What he discovers is that, from the moment we are born, we are all learning quickly, efficiently, and automatically; but in our zeal to systematize the process we have ignored valuable, naturally enjoyable learning tools like forgetting, sleeping, and daydreaming. Is a dedicated desk in a quiet room really the best way to study? Can altering your routine improve your recall? Are there times when distraction is good? Is repetition necessary? Carey's search for answers to these questions yields a wealth of strategies that make learning more a part of our

everyday lives—and less of a chore. By road testing many of the counterintuitive techniques described in this book, Carey shows how we can flex the neural muscles that make deep learning possible. Along the way he reveals why teachers should give final exams on the first day of class, why it's wise to interleave subjects and concepts when learning any new skill, and when it's smarter to stay up late prepping for that presentation than to rise early for one last cram session. And if this requires some suspension of disbelief, that's because the research defies what we've been told, throughout our lives, about how

best to learn. The brain is not like a muscle, at least not in any straightforward sense. It is something else altogether, sensitive to mood, to timing, to circadian rhythms, as well as to location and environment. It doesn't take orders well, to put it mildly. If the brain is a learning machine, then it is an eccentric one. In *How We Learn*, Benedict Carey shows us how to exploit its quirks to our advantage.

Phantoms In The Brain - V. S. Ramachandran
1998

[Phantoms in the Brain](#) - V. S. Ramachandran

2005

Using a series of case studies, 'Phantoms in the brain' introduces a strange and unexplored mental world. Ramachandran, through his research into brain damage, has discovered that the brain can react in strange ways to major physical changes.

Brain and Human Body Modeling - Sergey

Makarov 2019-01-01

This open access book describes modern applications of computational human modeling with specific emphasis in the areas of neurology and neuroelectromagnetics, depression and

cancer treatments, radio-frequency studies and wireless communications. Special consideration is also given to the use of human modeling to the computational assessment of relevant regulatory and safety requirements. Readers working on applications that may expose human subjects to electromagnetic radiation will benefit from this book's coverage of the latest developments in computational modelling and human phantom development to assess a given technology's safety and efficacy in a timely manner. Describes construction and application of computational human models including anatomically detailed

and subject specific models; Explains new practices in computational human modeling for neuroelectromagnetics, electromagnetic safety, and exposure evaluations; Includes a survey of modern applications for which computational human models are critical; Describes cellular-level interactions between the human body and electromagnetic fields.

Neurochemistry of Consciousness - Elaine K.

Perry 2002-01-01

This pioneering book explores in depth the role of neurotransmitters in conscious awareness. The central aim is to identify common neural

denominators of conscious awareness, informed by the neurochemistry of natural, drug induced and pathological states of consciousness.

Chemicals such as acetylcholine and dopamine, which bridge the synaptic gap between neurones, are the 'neurotransmitters in mind' that form the substance of the volume, which is essential reading for all who believe that unravelling mechanisms of consciousness must include these vital systems of the brain. Up-to-date information is provided on: □ Psychological domains of attention, motivation, memory, sleep and dreaming that define normal states of

consciousness. □ Effects of chemicals that alter or abolish consciousness, including hallucinogens and anaesthetics. □ Disorders of the brain such as dementia, schizophrenia and depression considered from the novel perspective of the way these affect consciousness, and how this might relate to disturbances in neurotransmission.

(Series B)

The Body Has a Mind of Its Own - Sandra Blakeslee 2008-09-09

In this compelling, cutting-edge book, two generations of science writers explore the exciting science of “body maps” in the brain—and how

startling new discoveries about the mind-body connection can change and improve our lives. Why do you still feel fat after losing weight? What makes video games so addictive? How can “practicing” your favorite sport in your imagination improve your game? The answers can be found in body maps. Just as road maps represent interconnections across the landscape, your many body maps represent all aspects of your bodily self, inside and out. In concert, they create your physical and emotional awareness and your sense of being a whole, feeling self in a larger social world. Moreover, your body maps

are profoundly elastic. Your self doesn't begin and end with your physical body but extends into the space around you. This space morphs every time you put on or take off clothes, ride a bike, or wield a tool. When you drive a car, your personal body space grows to envelop it. When you play a video game, your body maps automatically track and emulate the actions of your character onscreen. When you watch a scary movie, your body maps put dread in your stomach and send chills down your spine. If your body maps fall out of sync, you may have an out-of-body experience or see auras around other people. The Body Has

a Mind of Its Own explains how you can tap into the power of body maps to do almost anything better—whether it is playing tennis, strumming a guitar, riding a horse, dancing a waltz, empathizing with a friend, raising children, or coping with stress. The story of body maps goes even further, providing a fresh look at the causes of anorexia, bulimia, obsessive plastic surgery, and the notorious golfer's curse “the yips.” It lends insights into culture, language, music, parenting, emotions, chronic pain, and more. Filled with illustrations, wonderful anecdotes, and even parlor tricks that you can use to reconfigure

your body sense, *The Body Has a Mind of Its Own* will change the way you think—about the way you think. “The Blakeslees have taken the latest and most exciting finds from brain research and have made them accessible. This is how science writing should always be.” –Michael S.

Gazzaniga, Ph.D., author of *The Ethical Brain* “Through a stream of fascinating and entertaining examples, Sandra Blakeslee and Matthew Blakeslee illustrate how our perception of ourselves, and indeed the world, is not fixed but is surprisingly fluid and easily modified. They have created the best book ever written about

how our sense of ‘self’ emerges from the motley collection of neurons we call the brain.” –Jeff Hawkins, co-author of *On Intelligence* “The Blakeslees have taken the latest and most exciting finds from brain research and have made them accessible. This is how science writing should always be.” –Michael S. Gazzaniga, Ph.D., author of *The Ethical Brain* “A marvelous book. In the last ten years there has been a paradigm shift in understanding the brain and how its various specialized regions respond to environmental challenges. In addition to providing a brilliant overview of recent revolutionary

discoveries on body image and brain plasticity, the book is sprinkled with numerous insights.”

–V. S. Ramachandran, M.D., director, Center for Brain and Cognition, University of California, San Diego

Advanced Diffusion Encoding Methods in MRI -

Daniel Topgaard 2020-08-17

The medical MRI community is by far the largest user of diffusion NMR techniques and this book captures the current surge of methods and provides a primary source to aid adoption in this field. There is a trend to adapting the more advanced diffusion encoding sequences

developed by NMR researchers within the fields of porous media, chemical engineering, and colloid science to medical research. Recently published papers indicate great potential for improved diagnosis of the numerous pathological conditions associated with changes of tissue microstructure that are invisible to conventional diffusion MRI. This book disseminates these recent developments to the wider community of MRI researchers and clinicians. The chapters cover the theoretical basis, hardware and pulse sequences, data analysis and validation, and recent applications aimed at promoting further

growth in the field. This is a fast moving field and chapters are written by key MRI scientists that

have contributed to the successful translation of the advanced diffusion NMR methods to the context of medical MRI, from global locations.