

Critical Thinking Science And Pseudoscience Why We Cant Trust Our Brains

The Skeptic Encyclopedia of Pseudoscience
Science and Pseudoscience in Social Work Practice
Critical Thinking
The Skeptics' Guide to the Universe
Critical Thinking in Psychology
Science and Pseudoscience in Clinical Psychology, Second Edition
Science, Pseudo-science, Non-sense, and Critical Thinking
The Need for Critical Thinking and the Scientific Method
Critical Thinking
Pseudoscience in Child and Adolescent Psychotherapy
Newton's Apple and Other Myths about Science
Science Versus Pseudoscience
Pseudoscience and Deception
Ie-Psych Conc/ConnA
Tour Through the Whole Island of Great Britain
Feng Shui: Teaching About Science and Pseudoscience
Kindred Nonsense on Stilts
Critical Thinking, Science, and Pseudoscience
The Critical Thinking Toolkit
Philosophy of Pseudoscience
The Demon-Haunted World
Introduction to Educational Research
Critical Thinking in Psychology
Pseudoscience: A Critical Encyclopedia
Scientific Perspectives on Pseudoscience and the Paranormal
Pseudoscience and the Paranormal
How to Think Like a Psychologist
Tools for Critical Thinking in Biology
Science and Pseudoscience in Clinical Psychology, First Edition
Pseudoscience and Extraordinary Claims of the Paranormal
The Scientific Attitude
How to

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Think about Weird Things Pseudoscience Good Science, Bad Science, Pseudoscience, and Just Plain Bunk Abusing Science 50 Great Myths of Popular Psychology Navigating the Mindfield A Grain of Salt Psychology

The Skeptic Encyclopedia of Pseudoscience

"Introduction to Educational Research: A Critical Thinking Approach 2e is an engaging and informative core text that enables students to think clearly and critically about the scientific process of research. In achieving its goal to make research accessible to all educators and equip them with the skills to understand and evaluate published research, the text examines how educational research is conducted across the major traditions of quantitative, qualitative, mixed methods, and action research. The text is oriented toward consumers of educational research and uses a thinking-skills approach to its coverage of major ideas"--

Science and Pseudoscience in Social Work Practice

Critical Thinking

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Attacks on science have become commonplace. Claims that climate change isn't settled science, that evolution is "only a theory," and that scientists are conspiring to keep the truth about vaccines from the public are staples of some politicians' rhetorical repertoire. In this book, Lee McIntyre argues that what distinguishes science from its rivals is what he calls "the scientific attitude"—caring about evidence and being willing to change theories on the basis of new evidence. The history of science is littered with theories that were scientific but turned out to be wrong; the scientific attitude reveals why even a failed theory can help us to understand what is special about science. He describes the transformation of medicine from a practice based largely on hunches into a science based on evidence; considers scientific fraud; and examines the positions of ideology-driven denialists, pseudoscientists, and "skeptics" who reject scientific findings. The scientific attitude, McIntyre explains, offers a uniquely powerful tool in the defense of science. Book jacket.

The Skeptics' Guide to the Universe

The Critical Thinking Toolkit is a comprehensive compendium that

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equips readers with the essential knowledge and methods for clear, analytical, logical thinking and critique in a range of scholarly contexts and everyday situations. Takes an expansive approach to critical thinking by exploring concepts from other disciplines, including evidence and justification from philosophy, cognitive biases and errors from psychology, race and gender from sociology and political science, and tropes and symbols from rhetoric Follows the proven format of The Philosopher's Toolkit and The Ethics Toolkit with concise, easily digestible entries, "see also" recommendations that connect topics, and recommended reading lists Allows readers to apply new critical thinking and reasoning skills with exercises and real life examples at the end of each chapter Written in an accessible way, it leads readers through terrain too often cluttered with jargon Ideal for beginning to advanced students, as well as general readers, looking for a sophisticated yet accessible introduction to critical thinking

Critical Thinking in Psychology

Can your students distinguish between the true science of human thought and behavior and pop psychology? CRITICAL THINKING IN PSYCHOLOGY: SEPARATING SENSE FROM NONSENSE provides a tangible and

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compelling framework for making that distinction by using concrete examples of people's mistaken analysis of real-world problems. Stressing the importance of assessing the plausibility of claims, John Ruscio uses empirical research (such as the Milgram experiment) to strengthen evidence for his claims and to illustrate deception, self-deception, and psychological tricks throughout the text.

Science and Pseudoscience in Clinical Psychology, Second Edition

A dizzying array of popular psychology books, articles, and promotion campaigns tout a multitude of remedies for psychological problems. If you or someone you know is seeking therapy, this excellent reference book will provide needed guidance for navigating the mental health maze.

Science, Pseudo-science, Non-sense, and Critical Thinking

PSYCHOLOGY: CONCEPTS AND CONNECTIONS, BRIEF VERSION, will help your students make the connections between key concepts in psychology and the connections between those concepts and their own lives. Spencer

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Rathus's warm and engaging writing style explains the fundamentals in ways that students can understand, and then goes a step further to show how those fundamentals relate to students' daily lives. Rathus's commitment to helping students learn goes beyond the text narrative and is reflected in the text's proven active learning system, PQ4R (Preview, Question, Read, Reflect, Review, and Recite). This system is seamlessly integrated into the book's companion Connections CD-ROM, the Book Companion Web Site, and the Study Guide--all of which are FREE with every new copy of the text. New "Learning Connections" and "Life Connections" sections in the text also include icons that cue students to interactive content on the Connections CD-ROM and the Book Companion Web Site. This seamless integration of text and technology enhances the active learning system, PQ4R, in the text, and gives students multiple ways to connect with the text's current research and relevant applications. In this edition, Rathus invites students to learn about the latest in evolutionary psychology, biology, diversity, and gender issues in psychology--in a text that is concise yet thorough.

The Need for Critical Thinking and the Scientific Method

This is the first major text designed to help professionals and

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students evaluate the merits of popular yet controversial practices in clinical psychology, differentiating those that can stand up to the rigors of science from those that cannot. Leading researchers review widely used therapies for alcoholism, infantile autism, ADHD, and posttraumatic stress disorder; herbal remedies for depression and anxiety; suggestive techniques for memory recovery; and self-help models. Other topics covered include issues surrounding psychological expert testimony, the uses of projective assessment techniques, and unanswered questions about dissociative identity disorder. Providing knowledge to guide truly accountable mental health practice, the volume also imparts critical skills for designing and evaluating psychological research programs. It is ideal for use in advanced undergraduate- and graduate-level courses in clinical psychology, psychotherapy, and evidence-based practice.

Critical Thinking

By Lisa Valentino, Seminole Community College Aligned with the PQ4R learning model of Rathus's text, the Study Guide opens with a "Preview" section, encouraging students to discern their impressions of chapter material. The "Question" section poses learning objectives in an outline format and serves as the foundation for the two

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subsequent sections, "Reading for Understanding" and "Reflection Breaks." These two sections include cross-relational activities, such as matching and critical thinking exercises, which build on the material just covered. "Expand" pulls together all sections with applied exercises, expanding on the "life connection" theme of the text.

Pseudoscience in Child and Adolescent Psychotherapy

Scientific Perspectives on Pseudoscience and the Paranormal: Readings for General Psychology provides students with engaging articles from psychologists and other scientists who have investigated pseudoscience and paranormal phenomena as they relate to psychology. The text illuminates how scientists think about these phenomena, how they design research studies to investigate such phenomena, and why they are critical of pseudoscientific and paranormal claims. The book begins with an introduction to the topic of pseudoscience and the paranormal. The proceeding chapters are organized to complement fundamental psychology topics, including sensation and perception, learning and memory, social psychology, and more. Students learn various scientific perspectives on particular pseudoscientific and paranormal phenomena. The material emphasizes important psychological

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concepts and scientific principles that help students readily identify what science is and what it is not. The second edition contains 12 new readings that feature updated information and topics that weren't covered in the previous edition. The opening chapter and many of the reading introductions have been updated to reflect more recent events and research. Timely, engaging, and intended for students new to the discipline, *Scientific Perspectives on Pseudoscience and the Paranormal* is an ideal textbook for introductory courses in psychology and for courses related to critical thinking, pseudoscience, and the paranormal.

Newton's Apple and Other Myths about Science

Comprehensive and engaging, this extensively revised edition of a student and instructor favorite introduces the basics of critical thinking using the claims of pseudoscience and the paranormal. Guides readers through the critical thinking process by considering different types of support (sources, logic, and scientific observation) and ruling out alternative explanations. Allows students to practice and apply their new critical thinking skills on claims of extraordinary cures including energy treatments, complementary/alternative medicine and faith healing as well as four paranormal claims of consequence:

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astrology, spiritualism and the afterlife, parapsychology, and creationism. Couples a conversational, nontechnical narrative with student-friendly pedagogical tools, including critical thinking questions and a study guide for each chapter. Provides clear and open-minded discussions of the paranormal spectrum, belief justification surveys, the placebo effect, and the relationship between religion and critical thinking

Science Versus Pseudoscience

Science, Pseudo-science, Non-sense, and Critical Thinking shines an unforgiving light on popular and lucrative 'miraculous' practices that promise to offer answers during times of trouble. Throughout the book, the authors unfold the fallacies underlying these practices, as well as consumers' need and desire to believe in them. Adopting a scientific approach, the book critically evaluates research into cold-reading practices, such as those that claim to be able to communicate with the afterlife or possess supernatural powers, before considering a range of pseudo-sciences including graphology and polygraph interrogation, exposing the pretensions of these practices in a clear and logical fashion. The book seeks to encourage critical thinking throughout, asking whether there is any scientific evidence to support

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these practitioners' abilities to supply us with reliable answers, and discussing the various factors that comprise the psychological mechanism of belief. Written in a fluent and accessible style, Science, Pseudo-science, Non-sense, and Critical Thinking is aimed at interested professionals and the public at large.

Pseudoscience and Deception

Tells how to determine what is science, and looks at areas of conflict between science and pseudoscience, including the mind, the body, creation science, and astrology

Ie-Psych Conc/Conn

This unique text for undergraduate courses teaches students to apply critical thinking skills across all academic disciplines by examining popular pseudoscientific claims through a multidisciplinary lens. Rather than merely focusing on critical thinking grounded in philosophy and psychology, the text incorporates the perspectives of biology, physics, medicine, and other disciplines to reinforce different categories of rational explanation. The book is also

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distinguished by its respectful approach to individuals whose ideas are, according to the authors, deeply flawed. Accessible and engaging, it describes what critical thinking is, why it is important, and how to learn and apply skills using scientific methods--that promote it. The text also examines why critical thinking can be difficult to engage in and explores the psychological and social reasons why people are drawn to and find credence in extraordinary claims. From alien abductions and psychic phenomena to strange creatures and unsupported alternative medical treatments, the text uses examples from a wide range of pseudoscience fields and brings evidence from diverse disciplines to critically examine these erroneous claims. Particularly timely is the text's examination of how, using the narrative of today's "culture wars," religion and culture impact science. The authors focus on how the human brain, rife with natural biases, does not process information in a rational fashion, and the social factors that prevent individuals from gaining an unbiased, critical perspective on information. Authored by a psychologist and a philosopher who have extensive experience teaching and writing on critical thinking and skeptical inquiry, this work will help students to strengthen their skills in reasoning and debate, become intelligent consumers of research, and make well-informed choices as citizens. Key Features: Addresses the foundations of critical thinking and how to

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apply it through the popular activity of examining pseudoscience Explains why humans are vulnerable to pseudoscientific claims and how critical thinking can overcome fallacies and biases Reinforces critical thinking through multidisciplinary analyses of pseudoscience Examines how religion and culture impact science Enlightens using an engaging, entertaining approach Written by experienced and innovative scholar/educators well known in the skeptic community Features teaching resources including an Instructor's Guide and Powepoint slides

A Tour Through the Whole Island of Great Britain

In a post-truth, fake news world, we are particularly susceptible to the claims of pseudoscience. When emotions and opinions are more widely disseminated than scientific findings, and self-proclaimed experts get their expertise from Google, how can the average person distinguish real science from fake? This book examines pseudoscience from a variety of perspectives, through case studies, analysis, and personal accounts that show how to recognize pseudoscience, why it is so widely accepted, and how to advocate for real science. Contributors examine the basics of pseudoscience, including issues of cognitive bias; the costs of pseudoscience, with accounts of naturopathy and

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logical fallacies in the anti-vaccination movement; perceptions of scientific soundness; the mainstream presence of "integrative medicine," hypnosis, and parapsychology; and the use of case studies and new media in science advocacy. Contributors David Ball, Paul Joseph Barnett, Jeffrey Beall, Mark Benisz, Fernando Blanco, Ron Dumont, Stacy Ellenberg, Kevin M. Folta, Christopher French, Ashwin Gautam, Dennis M. Gorman, David H. Gorski, David K. Hecht, Britt Marie Hermes, Clyde F. Herreid, Jonathan Howard, Seth C. Kalichman, Leif Edward Ottesen Kennair, Arnold Kozak, Scott O. Lilienfeld, Emilio Lobato, Steven Lynn, Adam Marcus, Helena Matute, Ivan Oransky, Chad Orzel, Dorit Reiss, Ellen Beate Hansen Sandseter, Kavin Senapathy, Dean Keith Simonton, Indre Viskontas, John O. Willis, Corrine Zimmerman

Feng Shui: Teaching About Science and Pseudoscience

"Science is a way of thinking about and investigating the accuracy of assumptions about the world. It is a process for solving problems in which we learn from our mistakes. Social work has a long history of social reform and helping efforts. Let us continue this by paying attention to the important message of this book. --Eileen Gambrill, PhD, School of Social Welfare University of California at Berkeley (From the Foreword) Although many psychosocial interventions used in

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social work practice have strong research evidence supporting their efficacy, a surprising number do not, potentially resulting in harmful outcomes. In this book, the authors cast a critical eye on the reality of commonly used scientific and pseudoscientific practices in social work today. Stressing the need for separating research-based practices from those not supported by adequate levels of evidence, they examine the scientific and pseudoscientific bases for popular social work interventions used in a variety of treatment settings. The text examines the misuse of legitimate research and describes how social work education training can and should discourage pseudoscience. The concluding chapter describes pathways through which social work practice can become more firmly grounded in contemporary scientific research. This engaging book is intended for courses in critical thinking and evidence-based practice and is a valuable resource for all social work students and practitioners. Key Features: Promotes critical thinking regarding the evidence-based research--or lack thereof--behind a variety of social work interventions Written by renowned social work educators Addresses the history and characteristics of pseudoscience Examines pseudoscience practices in assessment and work with children, adolescents, adults, and individuals with developmental difficulties

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Kindred

sure to please both the armchair skeptic looking for clear rebuttals to paranormal nonsense and the scientist interested in understanding the cognitive mechanisms involved in supernatural beliefs.- Skeptical InquirerI found [it] an eye-opener in everything said.Hines writes with great insight and plain speaking without belittling the reader with anything but common-sense.this book has my unreserved recommendation to be read and thoroughly digested and deeply thought about.- SFCrowsnest.co.ukTelevision, the movies, and computer games fill the minds of their viewers with a daily staple of fantasy, from tales of UFO landings, haunted houses, and communication with the dead to claims of miraculous cures by gifted healers or breakthrough treatments by means of fringe medicine. The paranormal is so ubiquitous in one form of entertainment or another that many people easily lose sight of the distinction between the real and the imaginary, or they never learn to make the distinction in the first place. In this thorough review of pseudoscience and the paranormal in contemporary life, psychologist Terence Hines teaches readers how to carefully evaluate all such claims in terms of scientific evidence.Hines devotes separate chapters to psychics; life after death; parapsychology; astrology; UFOs; ancient astronauts, cosmic

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collisions, and the Bermuda Triangle; faith healing; and more. New to this second edition are extended sections on psychoanalysis and pseudopsychologies, especially recovered memory therapy, satanic ritual abuse, facilitated communication, and other questionable psychotherapies. There are also new chapters on alternative medicine, which is now marketed in our drug stores, and on environmental pseudoscience, with special emphasis on the evidence that certain technologies like cell phones or environmental agents like asbestos cause cancer. Finally, Hines discusses the psychological causes for belief in the paranormal despite overwhelming evidence to the contrary. This valuable, highly interesting, and completely accessible analysis critiques the whole range of current paranormal claims. Terence M. Hines (Pleasantville, NY) is professor of psychology at Pace University, and the author of the first edition of *Pseudoscience and the Paranormal*.

Nonsense on Stilts

Investigates questionable, ineffective, and harmful mental health treatments for children and adolescents.

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Critical Thinking, Science, and Pseudoscience

'Beautiful, evocative, authoritative.' Professor Brian Cox 'Important reading not just for anyone interested in these ancient cousins of ours, but also for anyone interested in humanity.' Yuval Noah Harari Kindred is the definitive guide to the Neanderthals. Since their discovery more than 160 years ago, Neanderthals have metamorphosed from the losers of the human family tree to A-list hominins. Rebecca Wragg Sykes uses her experience at the cutting-edge of Palaeolithic research to share our new understanding of Neanderthals, shoving aside clichés of rag-clad brutes in an icy wasteland. She reveals them to be curious, clever connoisseurs of their world, technologically inventive and ecologically adaptable. Above all, they were successful survivors for more than 300,000 years, during times of massive climatic upheaval. Much of what defines us was also in Neanderthals, and their DNA is still inside us. Planning, co-operation, altruism, craftsmanship, aesthetic sense, imagination, perhaps even a desire for transcendence beyond mortality. Kindred does for Neanderthals what Sapiens did for us, revealing a deeper, more nuanced story where humanity itself is our ancient, shared inheritance.

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The Critical Thinking Toolkit

More than just a collection of factual entries, this rich resource explores the difference between scientific and pseudoscientific pursuits in a way that spurs readers to ask questions and formulate answers. • 124 entries, from alchemy and alien abductions to yetis and zombies, that continually focus readers on the true nature of legitimate scientific methods and findings • An introductory essay, drawing on the work of genuine historians and philosophers of science, offering guidelines for assessing topics in pseudoscience • 40 original line drawings created specifically for this reference, depicting key individuals, creatures, artifacts, and more • An extensive bibliography of current and classic works on the full range of pseudoscience topics covered in this volume • An index that makes it easy to locate specific topics, terms, names, and ideas

Philosophy of Pseudoscience

The American Association for the Advancement of Science's report on Vision and Change in Undergraduate Biology Education suggests that instructors "can no longer rely solely on trying to cover a syllabus

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packed with topics" but rather should "introduce fewer concepts but present them in greater depth." They further suggest that the principles embodied in a set of core concepts and competencies should be the basis for all undergraduate biology courses, including those designed for nonmajors. The theme of Tools for Critical Thinking in Biology will be the first and most fundamental of these competencies: the ability to apply the process of science. Biology courses and curricula must engage students in how scientific inquiry is conducted, including evaluating and interpreting scientific explanations of the natural world. The book uses diverse examples to illustrate how experiments work, how hypotheses can be tested by systematic and comparative observations when experiments aren't possible, how models are useful in science, and how sound decisions can be based on the weight of evidence even when uncertainty remains. These are fundamental issues in the process of science that are important for everyone to understand, whether they pursue careers in science or not. Where other introductory biology textbooks are organized by scientific concepts, Tools for Critical Thinking in Biology will instead show how methods can be used to test hypotheses in fields as different as ecology and medicine, using contemporary case studies. The book will provide students with a deeper understanding of the strengths and weaknesses of such methods for answering new questions, and will

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thereby change the way they think about the fundamentals of biology.

The Demon-Haunted World

The book exposes many of the misunderstandings about the scientific method and its application to critical thinking. It argues for a better understanding of the scientific method and for nurturing critical thinking in the community. This knowledge helps the reader to analyze issues more objectively, and warns about the dangers of bias and propaganda. The principles are illustrated by considering several issues that are currently being debated. These include anthropogenic global warming (often loosely referred to as climate change), dangers to preservation of the Great Barrier Reef, and the expansion of the gluten-free food market and genetic engineering.

Introduction to Educational Research

50 Great Myths of Popular Psychology uses popular myths as a vehicle for helping students and laypersons to distinguish science from pseudoscience. Uses common myths as a vehicle for exploring how to distinguish factual from fictional claims in popular psychology

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Explores topics that readers will relate to, but often misunderstand, such as 'opposites attract', 'people use only 10% of their brains', and 'handwriting reveals your personality' Provides a 'mythbusting kit' for evaluating folk psychology claims in everyday life Teaches essential critical thinking skills through detailed discussions of each myth Includes over 200 additional psychological myths for readers to explore Contains an Appendix of useful Web Sites for examining psychological myths Features a postscript of remarkable psychological findings that sound like myths but that are true Engaging and accessible writing style that appeals to students and lay readers alike

Critical Thinking in Psychology

Pseudoscience: A Critical Encyclopedia

A falling apple inspired the law of gravity—or so the story goes. Is it true? Perhaps not. But why do such stories endure as explanations of how science happens? Newton's Apple and Other Myths about Science brushes away popular misconceptions to provide a clearer picture of

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scientific breakthroughs from ancient times to the present.

Scientific Perspectives on Pseudoscience and the Paranormal

Examines supernatural controversies such as crop circles, the Shroud of Turin, and cold fusion, and provides evidence for and against each phenomenon.

Pseudoscience and the Paranormal

Britain in the early eighteenth century: an introduction that is both informative and imaginative, reliable and entertaining. To the tradition of travel writing Daniel Defoe brings a lifetime's experience as a businessman, soldier, economic journalist and spy, and his *Tour* (1724-6) is an invaluable source of social and economic history. But this book is far more than a beautifully written guide to Britain just before the industrial revolution, for Defoe possessed a wild, inventive streak that endows his work with astonishing energy and tension, and the *Tour* is his deeply imaginative response to a brave new economic world. By employing his skills as a chronicler, a polemicist and a creative writer keenly sensitive to the depredations

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of time, Defoe more than achieves his aim of rendering 'the present state' of Britain.

How to Think Like a Psychologist

Explores key topics in psychology, showing how they can be critically examined.

Tools for Critical Thinking in Biology

What sets the practice of rigorously tested, sound science apart from pseudoscience? In this volume, the contributors seek to answer this question, known to philosophers of science as “the demarcation problem.” This issue has a long history in philosophy, stretching as far back as the early twentieth century and the work of Karl Popper. But by the late 1980s, scholars in the field began to treat the demarcation problem as impossible to solve and futile to ponder. However, the essays that Massimo Pigliucci and Maarten Boudry have assembled in this volume make a rousing case for the unequivocal importance of reflecting on the separation between pseudoscience and sound science. Moreover, the demarcation problem is not a purely

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theoretical dilemma of mere academic interest: it affects parents' decisions to vaccinate children and governments' willingness to adopt policies that prevent climate change. Pseudoscience often mimics science, using the superficial language and trappings of actual scientific research to seem more respectable. Even a well-informed public can be taken in by such questionable theories dressed up as science. Pseudoscientific beliefs compete with sound science on the health pages of newspapers for media coverage and in laboratories for research funding. Now more than ever the ability to separate genuine scientific findings from spurious ones is vital, and *The Philosophy of Pseudoscience* provides ground for philosophers, sociologists, historians, and laypeople to make decisions about what science is or isn't.

Science and Pseudoscience in Clinical Psychology, First Edition

Recent polls suggest that fewer than 40 percent of Americans believe in Darwin's theory of evolution, despite it being one of science's best-established findings. More and more parents are refusing to vaccinate their children for fear it causes autism, though this link

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can be consistently disproved. And about 40 percent of Americans believe that the threat of global warming is exaggerated, despite near consensus in the scientific community that manmade climate change is real. Why do people believe bunk? And what causes them to embrace such pseudoscientific beliefs and practices? Noted skeptic Massimo Pigliucci sets out to separate the fact from the fantasy in this entertaining exploration of the nature of science, the borderlands of fringe science, and—borrowing a famous phrase from philosopher Jeremy Bentham—the nonsense on stilts. Presenting case studies on a number of controversial topics, Pigliucci cuts through the ambiguity surrounding science to look more closely at how science is conducted, how it is disseminated, how it is interpreted, and what it means to our society. The result is in many ways a “taxonomy of bunk” that explores the intersection of science and culture at large. No one—not the public intellectuals in the culture wars between defenders and detractors of science nor the believers of pseudoscience themselves—is spared Pigliucci’s incisive analysis. In the end, *Nonsense on Stilts* is a timely reminder of the need to maintain a line between expertise and assumption. Broad in scope and implication, it is also ultimately a captivating guide for the intelligent citizen who wishes to make up her own mind while navigating the perilous debates that will affect the future of our planet.

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Pseudoscience and Extraordinary Claims of the Paranormal

This valued resource helps practitioners and students evaluate the merits of popular yet controversial practices in clinical psychology and allied fields, and base treatment decisions on the best available research. Leading authorities review widely used therapies for a range of child, adolescent, and adult disorders, differentiating between those that can stand up to the rigors of science and those that cannot. Questionable assessment and diagnostic techniques and self-help models are also examined. The volume provides essential skills for thinking critically as a practitioner, evaluating the validity of scientific claims, and steering clear of treatments that are ineffective or even harmful. New to This Edition *Reflects the significant growth of evidence-based practices in the last decade. *Updated throughout with the latest treatment research. *Chapter on attachment therapy. *Chapter on controversial interventions for child and adolescent antisocial behavior. *Addresses changes in DSM-5.

The Scientific Attitude

Pseudoscience and Deception is a compilation of some of the most eye-

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opening skeptical articles pertaining to extraordinary claims and pseudoscience. The articles explore paranormal, extraordinary, or fringe-science claims and reveal logical explanations or outline the deceptive tactics involved in convincing the vulnerable. Topics include claims of astrology, psychic ability, alternative medicine, after-death communication, psychotherapy, and pseudoscience. The contributors to this book are among the most accomplished critical thinkers, scientists, and educators in the world and tackle their respective topics from a rational, logical, and skeptical perspective. Most students are seldom excited to study “critical thinking”—with the exception of allegedly paranormal phenomena as the subject matter. Educators must seize this golden opportunity to witness and experience students’ genuine engagement in studying critical thinking.

How to Think about Weird Things

We are constantly bombarded with breaking scientific news in the media, but we are almost never provided with enough information to assess the truth of these claims. This book teaches readers how to think like a scientist to question claims like these more critically.

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Pseudoscience

Pseudoscience and Extraordinary Claims of the Paranormal: A Critical Thinker's Toolkit provides readers with a variety of "reality-checking" tools to analyze extraordinary claims and to determine their validity. Integrates simple yet powerful evaluative tools used by both paranormal believers and skeptics alike Introduces innovations such as a continuum for ranking paranormal claims and evaluating their implications Includes an innovative "Critical Thinker's Toolkit," a systematic approach for performing reality checks on paranormal claims related to astrology, psychics, spiritualism, parapsychology, dream telepathy, mind-over-matter, prayer, life after death, creationism, and more Explores the five alternative hypotheses to consider when confronting a paranormal claim Reality Check boxes, integrated into the text, invite students to engage in further discussion and examination of claims Written in a lively, engaging style for students and general readers alike Ancillaries: Testbank and PowerPoint slides available at www.wiley.com/go/pseudoscience

Good Science, Bad Science, Pseudoscience, and Just Plain Bunk

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This book provides a richly documented account of the historical, cultural, philosophical and practical dimensions of feng shui. It argues that where feng shui is entrenched educational systems have a responsibility to examine its claims, and that this examination provides opportunities for students to better learn about the key features of the nature of science, the demarcation of science and non-science, the characteristics of pseudoscience, and the engagement of science with culture and worldviews. The arguments presented for feng shui being a pseudoscience can be marshalled when considering a whole range of comparable beliefs and the educational benefit of their appraisal. Feng shui is a deeply-entrenched, three-millennia-old system of Asian beliefs and practices about nature, architecture, health, and divination that has garnered a growing presence outside of Asia. It is part of a comprehensive and ancient worldview built around belief in chi (qi) the putative universal energy or life-force that animates all existence, the cosmos, the solar system, the earth, and human bodies. Harmonious living requires building in accord with local chi streams; good health requires replenishment and manipulation of internal chi flow; and a beneficent afterlife is enhanced when buried in conformity with chi directions. Traditional Chinese Medicine is based on the proper manipulation of internal chi by acupuncture, tai-chi and qigong exercise, and herbal dietary supplements. Matthews has

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produced another tour de force that will repay close study by students, scientists, and all those concerned to understand science, culture, and the science/culture nexus. Harvey Siegel, Philosophy, University of Miami, USA With great erudition and even greater fluidity of style, Matthews introduces us to this now-world-wide belief system. Michael Ruse, Philosophy, Florida State University, USA The book is one of the best research works published on Feng Shui. Wang Youjun, Philosophy, Shanghai Normal University, China The history is fascinating. The analysis makes an important contribution to science literature. James Alcock, Psychology, York University, Canada This book provides an in-depth study of Feng Shui in different periods, considering its philosophical, historical and educational dimensions; especially from a perspective of the 'demarcation problem' between science and pseudoscience. Yao Dazhi, Chinese Academy of Sciences, China

Abusing Science

Abusing Science is a manual for intellectual self-defense, the most complete available for presenting the case against Creationist pseudoscience. It is also a lucid exposition of the nature and methods of genuine science. The book begins with a concise introduction to

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evolutionary theory for non-scientists and closes with a rebuttal of the charge that this theory undermines religious and moral values. It will astonish many readers that this case must still be made in the 1980s, but since it must, Philip Kitcher makes it irresistibly and forcefully. Not long ago, a federal court struck down an Arkansas law requiring that "scientific" Creationism be taught in high school science classes. Contemporary Creationists may have lost one legal battle, but their cause continues to thrive. Their efforts are directed not only at state legislatures but at local school boards and textbook publishers. As Kitcher argues in this rigorous but highly readable book, the integrity of science is under attack. The methods of inquiry used in evolutionary biology are those which are used throughout the sciences. Moreover, modern biology is intertwined with other fields of science--physics, chemistry, astronomy, and geology. Creationists hope to persuade the public that education in science should be torn apart to make room for a literal reading of Genesis. Abusing Science refutes the popular complaint that the scientific establishment is dogmatic and intolerant, denying "academic freedom" to the unorthodox. It examines Creationist claims seriously and systematically, one by one, showing clearly just why they are at best misguided, at worst ludicrous.

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50 Great Myths of Popular Psychology

Featuring an informal writing style throughout, this unique book uses a question-and-answer format to explore some of the most common questions asked about psychology. Topics feature many everyday examples, and include exercises that encourage readers to think critically and to relate the material to their own lives. The book also features discussion of common misconceptions and impediments to understanding psychology.

Navigating the Mindfield

Bestselling popular science author Dr. Joe Schwarcz debunks the baloney and serves up the raw facts in this appetizing collection about the things we eat. Eating has become a confusing experience. Should we follow a keto diet? Is sugar the next tobacco? Does fermented cabbage juice cure disease? Are lectins toxic? Is drinking poppy seed tea risky? What's with probiotics? Can packaging contaminate food? Should our nuts be activated? What is cockroach milk? We all have questions, and Dr. Joe Schwarcz has the answers, some of which will astonish you. Guaranteed to satisfy your hunger for

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palatable and relevant scientific information, Dr. Joe separates fact from fiction in this collection of new and updated articles about what to eat, what not to eat, and how to recognize the scientific basis of food chemistry.

A Grain of Salt

The USA TODAY bestseller is now in paperback with a new chapter on Global Warming! This all-encompassing guide to skeptical thinking from podcast host and academic neurologist at Yale University School of Medicine Steven Novella and his SGU co-hosts, which Richard Wiseman calls "the perfect primer for anyone who wants to separate fact from fiction." It is intimidating to realize that we live in a world overflowing with misinformation, bias, myths, deception, and flawed knowledge. There really are no ultimate authority figures—no one has the secret, and there is no place to look up the definitive answers to our questions (not even Google). Luckily, THE SKEPTICS' GUIDE TO THE UNIVERSE is your map through this maze of modern life. Here Dr. Steven Novella—along with Bob Novella, Cara Santa Maria, Jay Novella, and Evan Bernstein—will explain the tenets of skeptical thinking and debunk some of the biggest scientific myths, fallacies, and conspiracy theories—from anti-vaccines to homeopathy, UFO sightings to N-rays.

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You'll learn the difference between science and pseudoscience, essential critical thinking skills, ways to discuss conspiracy theories with that crazy co-worker of yours, and how to combat sloppy reasoning, bad arguments, and superstitious thinking. So are you ready to join them on an epic scientific quest, one that has taken us from huddling in dark caves to setting foot on the moon? (Yes, we really did that.) DON'T PANIC! With THE SKEPTICS' GUIDE TO THE UNIVERSE, we can do this together. "Thorough, informative, and enlightening, The Skeptic's Guide to the Universe inoculates you against the frailties and shortcomings of human cognition. If this book does not become required reading for us all, we may well see modern civilization unravel before our eyes."--Neil deGrasse Tyson "In this age of real and fake information, your ability to reason, to think in scientifically skeptical fashion, is the most important skill you can have. Read The Skeptics' Guide Universe; get better at reasoning. And if this claim about the importance of reason is wrong, The Skeptics' Guide will help you figure that out, too." --Bill Nye

Psychology

A prescient warning of a future we now inhabit, where fake news stories and Internet conspiracy theories play to a disaffected

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American populace “A glorious book . . . A spirited defense of science . . . From the first page to the last, this book is a manifesto for clear thought.”—Los Angeles Times How can we make intelligent decisions about our increasingly technology-driven lives if we don’t understand the difference between the myths of pseudoscience and the testable hypotheses of science? Pulitzer Prize-winning author and distinguished astronomer Carl Sagan argues that scientific thinking is critical not only to the pursuit of truth but to the very well-being of our democratic institutions. Casting a wide net through history and culture, Sagan examines and authoritatively debunks such celebrated fallacies of the past as witchcraft, faith healing, demons, and UFOs. And yet, disturbingly, in today’s so-called information age, pseudoscience is burgeoning with stories of alien abduction, channeling past lives, and communal hallucinations commanding growing attention and respect. As Sagan demonstrates with lucid eloquence, the siren song of unreason is not just a cultural wrong turn but a dangerous plunge into darkness that threatens our most basic freedoms. Praise for *The Demon-Haunted World* “Powerful . . . A stirring defense of informed rationality. . . Rich in surprising information and beautiful writing.”—The Washington Post Book World “Compelling.”—USA Today “A clear vision of what good science means and why it makes a difference. . . . A testimonial to the power of science and a warning

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of the dangers of unrestrained credulity.”—The Sciences
“Passionate.”—San Francisco Examiner—Chronicle

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