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Philosophy Brain

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***What were the
circumstances that led to***

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***the development of our
cognitive abilities from a
primitive hominid to an
essentially modern human?
The answer to this question
is of profound importance
to understanding our***

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present nature. Since the steep path of our cognitive development is the attribute that most distinguishes humans from other mammals, this is also a quest to determine

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human origins. This collection of outstanding scientific problems and the revelation of the many ways they can be addressed indicates the scope of the field to be

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explored and reveals some avenues along which research is advancing. Distinguished scientists and researchers who have advanced the discussion of the mind and brain

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contribute state-of-the-art presentations of their field of expertise. Chapters offer speculative and provocative views on topics such as body, culture, evolution, feelings, genetics, history,

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***humor, knowledge,
language, machines,
neuroanatomy, pathology,
and perception. This book
will appeal to researchers
and students in cognitive
neuroscience, experimental***

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***psychology, cognitive
science, and philosophy.***

***Includes a contribution by
Noam Chomsky, one of the
most cited authors of our
time***

"What is the mind?" "What

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is the relationship between brain and mind?" These are common questions. But "What is the brain?" is a rare question in both the neurosciences and philosophy. The reason for

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this may lie in the brain itself: Is there a "brain problem"? In this fresh and innovative book, Georg Northoff demonstrates that there is in fact a "brain problem". He argues that

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our brain can only be understood when its empirical functions are directly related to the modes of acquiring knowledge, our epistemic abilities and inabilities.

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***Drawing on the latest
neuroscientific data and
philosophical theories, he
provides an empirical-
epistemic definition of the
brain. Northoff reveals the
basic conceptual confusion***

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about the relationship between mind and brain that has so obstinately been lingering in both neuroscience and philosophy. He subsequently develops an

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alternative framework where the integration of the brain within body and environment is central. This novel approach plunges the reader into the depths of our own brain. The

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***"Philosophy of the Brain"
that emerges opens the
door to a fascinating world
of new findings that
explore the mind and its
relationship to our very
human brain. (Series A)***

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An argument for a Copernican revolution in our consideration of mental features—a shift in which the world-brain problem supersedes the mind-body problem. Philosophers have

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long debated the mind-body problem—whether to attribute such mental features as consciousness to mind or to body. Meanwhile, neuroscientists search for empirical

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answers, seeking neural correlates for consciousness, self, and free will. In this book, Georg Northoff does not propose new solutions to the mind-body problem;

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instead, he questions the problem itself, arguing that it is an empirically, ontologically, and conceptually implausible way to address the existence and reality of

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mental features. We are better off, he contends, by addressing consciousness and other mental features in terms of the relationship between world and brain; philosophers should

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consider the world-brain problem rather than the mind-body problem. This calls for a Copernican shift in vantage point—from within the mind or brain to beyond the brain—in our

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consideration of mental features. Northoff, a neuroscientist, psychiatrist, and philosopher, explains that empirical evidence suggests that the brain's spontaneous activity and

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its spatiotemporal structure are central to aligning and integrating the brain within the world. This spatiotemporal structure allows the brain to extend beyond itself into

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body and world, creating the “world-brain relation” that is central to mental features. Northoff makes his argument in empirical, ontological, and epistemic-methodological terms. He

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discusses current models of the brain and applies these models to recent data on neuronal features underlying consciousness and proposes the world-brain relation as the

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***ontological predisposition
for consciousness.***

***“The father of cognitive
neuroscience” illuminates
the past, present, and
future of the mind-brain
problem How do neurons***

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turn into minds? How does physical “stuff”—atoms, molecules, chemicals, and cells—create the vivid and various worlds inside our heads? The problem of consciousness has gnawed

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at us for millennia. In the last century there have been massive breakthroughs that have rewritten the science of the brain, and yet the puzzles faced by the ancient Greeks

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***are still present. In The
Consciousness Instinct, the
neuroscience pioneer
Michael S. Gazzaniga puts
the latest research in
conversation with the
history of human thinking***

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about the mind, giving a big-picture view of what science has revealed about consciousness. The idea of the brain as a machine, first proposed centuries ago, has led to assumptions

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***about the relationship
between mind and brain
that dog scientists and
philosophers to this day.
Gazzaniga asserts that this
model has it
backward—brains make***

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machines, but they cannot be reduced to one. New research suggests the brain is actually a confederation of independent modules working together. Understanding how

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consciousness could emanate from such an organization will help define the future of brain science and artificial intelligence, and close the gap between brain and

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

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***Philosophical Foundations
of Neuroscience
Macroneural Theories in
Cognitive Neuroscience
The Conceptual
Foundations of Law and
Neuroscience***

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***Mental Models and the
Mind***

***Philosophy, Neuroscience
and Consciousness***

***Toward a Unified Science of
the Mind-brain***

Causal Explanations,

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Mechanisms and Experimental Manipulations

The search for mind-brain relationships, with a particular emphasis on distinguishing hyperbole from solid empirical results in brain imaging studies. Cognitive neuroscience explores

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the relationship between our minds and our brains, most recently by drawing on brain imaging techniques to align neural mechanisms with psychological processes. In *Mind and Brain*, William Uttal offers a critical review of cognitive

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neuroscience, examining both its history and modern developments in the field. He pays particular attention to the role of brain imaging—especially functional magnetic resonance imaging (fMRI)—in studying the mind-brain relationship. He

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argues that, despite the explosive growth of this new mode of research, there has been more hyperbole than critical analysis of what experimental outcomes really mean. With *Mind and Brain*, Uttal attempts a synoptic synthesis of this substantial body

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of scientific literature. Uttal considers psychological and behavioral concerns that can help guide the neuroscientific discussion; work done before the advent of imaging systems; and what brain imaging has brought to recent research. Cognitive

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neuroscience, Uttal argues, is truly both cognitive and neuroscientific. Both approaches are necessary and neither is sufficient to make sense of the greatest scientific issue of all: how the brain makes the mind. A lucid and wide-ranging

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introduction suitable for readers with a basic grounding in philosophy.

"What is the mind?" "What is the relationship between brain and mind?" These are common questions. But "What is the brain?" is a rare question in both

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the neurosciences and philosophy. The reason for this may lie in the brain itself: Is there a "brain problem"? In this fresh and innovative book, Georg Northoff demonstrates that there is in fact a "brain problem." He argues that our brain can only be

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understood when its empirical functions are directly related to the modes of acquiring knowledge, our epistemic abilities and inabilities. Drawing on the latest neuroscientific data and philosophical theories, he provides an empirical-epistemic

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definition of the brain. Northoff reveals the basic conceptual confusion about the relationship between mind and brain that has so obstinately been lingering in both neuroscience and philosophy. He subsequently develops an alternative

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framework where the integration of the brain within body and environment is central. This novel approach plunges the reader into the depths of our own brain. The "Philosophy of the Brain" that emerges opens the door to a fascinating world of new findings

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that explore the mind and its relationship to our very human brain. (Series A)

INTERNATIONAL BESTSELLER A Best Book of 2021—Bloomberg Businessweek; A Best Science Book of 2021—The Guardian; A Best Science Book of

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2021—Financial Times; A Best
Philosophy Book of 2021—Five
Books; A Best Book of 2021—The
Economist Anil Seth's quest to
understand the biological basis of
conscious experience is one of
the most exciting contributions to
twenty-first-century science.

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What does it mean to “be you”—that is, to have a specific, conscious experience of the world around you and yourself within it? There may be no more elusive or fascinating question. Historically, humanity has considered the nature of consciousness to be a

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primarily spiritual or philosophical inquiry, but scientific research is now mapping out compelling biological theories and explanations for consciousness and selfhood. Now, internationally renowned neuroscience professor, researcher, and author

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Anil Seth is offers a window into our consciousness in BEING YOU: A New Science of Consciousness. Anil Seth is both a leading expert on the neuroscience of consciousness and one of most prominent spokespeople for this relatively new field of science. His

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radical argument is that we do not perceive the world as it objectively is, but rather that we are prediction machines, constantly inventing our world and correcting our mistakes by the microsecond, and that we can now observe the biological

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mechanisms in the brain that accomplish this process of consciousness. Seth has been interviewed for documentaries aired on the BBC, Netflix, and Amazon and podcasts by Sam Harris, Russell Brand, and Chris Anderson, and his 2017 TED Talk

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on the topic has been viewed over 11 million times, a testament to his uncanny ability to make unimaginably complex science accessible and entertaining.

Simple Minds

Philosophical Perspectives on

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Brain, Mind, And Language

Cognitive Neuroscience

I am Not a Brain

Fragments of Mind and Brain

Neuro-Philosophy and the Healthy

Mind: Learning from the Unwell

Brain

Current developments in

Cognitive Psychology,

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Neuroscience and Philosophy of
Mind

The Tools of Neuroscience
Experiment

**How do cognitive
neuroscientists explain
phenomena like memory or**

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language processing? This book examines the different kinds of experiments and manipulative research strategies involved in understanding and eventually explaining such phenomena.

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Against this background, it evaluates contemporary accounts of scientific explanation, specifically the mechanistic and interventionist accounts, and finds them to be crucially

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**incomplete. Besides,
mechanisms and interventions
cannot actually be combined in
the way usually done in the
literature. This book offers
solutions to both these
problems based on insights**

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from experimental practice. It defends a new reading of the interventionist account, highlights the importance of non-interventionist studies for scientific inquiry, and supplies a taxonomy of experiments

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that makes it easy to see how the gaps in contemporary accounts of scientific explanation can be filled. The book concludes that a truly empirically adequate philosophy of science must

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take into account a much wider range of experimental research than has been done to date. With the taxonomy provided, this book serves a stepping-stone leading into a new era of philosophy of

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**science—for cognitive
neuroscience and beyond.
Matthew Owen argues in
Measuring the Immeasurable
Mind that it is possible to
empirically detect and
measure nonphysical**

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consciousness. Toward this end, Owen proposes a model of neural correlates of consciousness informed by Aristotle's understanding of causal powers and Aquinas's view of human nature.

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Drawing on the latest work in cognitive neuroscience, a philosopher proposes that delusions are narrative models that accommodate anomalous experiences. In *The Measure of Madness*, Philip Gerrans offers

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a novel explanation of delusion. Over the last two decades, philosophers and cognitive scientists have investigated explanations of delusion that interweave philosophical questions about

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**the nature of belief and
rationality with findings from
cognitive science and
neurobiology. Gerrans argues
that once we fully describe the
computational and neural
mechanisms that produce**

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delusion and the way in which conscious experience and thought depend on them, the concept of delusional belief retains only a heuristic role in the explanation of delusion. Gerrans proposes that

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delusions are narrative models that accommodate anomalous experiences. He argues that delusions represent the operation of the Default Mode Network (DMN)—the cognitive system that provides the raw

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**material for humans' inbuilt
tendency to provide a
subjectively compelling
narrative context for
anomalous or highly salient
experiences—without the
“supervision” of higher**

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cognitive processes present in the nondelusional mind. This explanation illuminates the relationship among delusions, dreams, imaginative states, and irrational beliefs that have perplexed philosophers and

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psychologists for over a century. Going beyond the purely conceptual and the phenomenological, Gerrans brings together findings from different disciplines to trace the flow of information

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**through the cognitive system,
and applies these to case
studies of typical
schizophrenic delusions:
misidentification, alien
control, and thought insertion.
Drawing on the interventionist**

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model of causal explanation in philosophy of science and the predictive coding approach to the mind influential in computational neuroscience, Gerrans provides a model for integrative theorizing about

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the mind.

**Philosophy and Neuroscience:
A Ruthlessly Reductive
Account is the first book-
length treatment of
philosophical issues and
implications in current cellular**

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**and molecular neuroscience.
John Bickle articulates a
philosophical justification for
investigating "lower level"
neuroscientific research and
describes a set of
experimental details that have**

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recently yielded the reduction of memory consolidation to the molecular mechanisms of long-term potentiation (LTP). These empirical details suggest answers to recent philosophical disputes over

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**the nature and possibility of
psycho-neural scientific
reduction, including the
multiple realization challenge,
mental causation, and
relations across explanatory
levels. Bickle concludes by**

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**examining recent work in
cellular neuroscience
pertaining to features of
conscious experience,
including the cellular basis of
working memory, the effects
of explicit selective attention**

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on single-cell activity in visual cortex, and sensory experiences induced by cortical microstimulation.

Mental Mechanisms

The Spontaneous Brain

The Brain and the Meaning of

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Life

**Where Contemporary
Neuroscience Meets the
Aristotelian Tradition
History of Cognitive
Neuroscience
Mind and Brain**

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Neuroscience and Philosophy

Does the brain create the mind, or is some external entity involved? In addressing this "hard problem" of consciousness, we face a central human challenge: what do we really know and how do we know it?

Tentative answers in this book

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follow from a synthesis of profound ideas, borrowed from philosophy, religion, politics, economics, neuroscience, physics, mathematics, and cosmology, the knowledge structures supporting our meager grasps of reality. This search for new links in the web of

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human knowledge extends in many directions: the "shadows" of our thought processes revealed by brain imagining, brains treated as complex adaptive systems that reveal fractal-like behavior in the brain's nested hierarchy, resonant interactions facilitating functional

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**connections in brain tissue,
probability and entropy as
measures of human ignorance,
fundamental limits on human
knowledge, and the central role
played by information in both
brains and physical systems. In
Brain, Mind, and the Structure of**

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Reality, Paul Nunez discusses the possibility of deep connections between relativity, quantum mechanics, thermodynamics, and consciousness: all entities involved with fundamental information barriers. Dr. Nunez elaborates on possible new links in this nested

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web of human knowledge that may tell us something new about the nature and origins of consciousness. In the end, does the brain create the mind? Or is the Mind already out there? You decide.

Many consider the nature of human

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consciousness to be one of the last great unsolved mysteries. Why should the light turn on, so to speak, in human beings at all? And how is the electrical storm of neurons under our skull connected with our consciousness? Is the self only our brain's user interface, a

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kind of stage on which a show is performed that we cannot freely direct? In this book, philosopher Markus Gabriel challenges an increasing trend in the sciences towards neurocentrism, a notion which rests on the assumption that the self is identical to the brain.

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Gabriel raises serious doubts as to whether we can know ourselves in this way. In a sharp critique of this approach, he presents a new defense of the free will and provides a timely introduction to philosophical thought about the self – all with verve, humor, and

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surprising insights. Gabriel criticizes the scientific image of the world and takes us on an eclectic journey of self-reflection by way of such concepts as self, consciousness, and freedom, with the aid of Kant, Schopenhauer, and Nagel but also Dr. Who, The

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Walking Dead, and Fargo.

The sciences philosophy, psychology and neuroscience share the basis that all refer to the human being. Therefore, an interdisciplinary collaboration would be desirable. The exchange of criticism is an essential

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requirement for interdisciplinary collaboration. Criticism must be heard and – if possible – considered. Indeed, criticism can be valid or unwarranted. However, whether criticism is unwarranted can only emerge from discussion and conversation. In the discussion

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of cognitive neuroscience, some criticism can easily be considered (such as the mereological fallacy that represents that talking about the person is substituted with talking about the brain). Another issue for an interdisciplinary discussion of cognitive

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neuroscience is the interpretation of the readiness potential including re-considering Benjamin Libet's classic experiments. Additionally, a critical discussion on cognitive neuroscience must address ethical questions, such as the possibility of the abuse of neuroscientific

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insight.

Drawing on philosophy, neuroscience, and artificial intelligence, Simple Minds explores the construction of the mind from the matter of the brain.

New Challenges in the Philosophy of Neuroscience

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**Does Neuroscience Have
Normative Implications?**

A New Science of Consciousness

Neural Mechanisms

Being You

Theories in Neuroscience and

Philosophy of Mind

Consciousness and Cognition

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"Cognitive psychology," "cognitive neuroscience," and "philosophy of mind" are names for three very different scientific fields, but they label aspects of the same scientific goal: to understand the nature of mental phenomena. Today, the three disciplines strongly overlap under the

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roof of the cognitive sciences. The book's purpose is to present views from the different disciplines on one of the central theories in cognitive science: the theory of mental models. Cognitive psychologists report their research on the representation and processing of mental models in human

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memory. Cognitive neuroscientists demonstrate how the brain processes visual and spatial mental models and which neural processes underlie visual and spatial thinking. Philosophers report their ideas about the role of mental models in relation to perception, emotion, representation,

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and intentionality. The single articles have different and mutually complementing goals: to introduce new empirical methods and approaches, to report new experimental results, and to locate competing approaches for their interpretation in the cross-disciplinary

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debate. The book is strongly interdisciplinary in character. It is especially addressed to researchers in any field related to mental models theory as both a reference book and an overview of present research on the topic in other disciplines. However, it is also an ideal reader for a

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specialized graduate course.

Examines the theory of mental models from the perspectives of cognitive psychology, cognitive neuroscience and philosophy of the mind Introduces new empirical methods, experimental results, and interdisciplinary yet complementary approaches Serves as

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a reference book and an overview of current research

A variety of scientific disciplines have set as their task explaining mental activities, recognizing that in some way these activities depend upon our brain. But, until recently, the opportunities to conduct experiments

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directly on our brains were limited. As a result, research efforts were split between disciplines such as cognitive psychology, linguistics, and artificial intelligence that investigated behavior, while disciplines such as neuroanatomy, neurophysiology, and genetics experimented on the brains of

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non-human animals. In recent decades these disciplines integrated, and with the advent of techniques for imaging activity in human brains, the term cognitive neuroscience has been applied to the integrated investigations of mind and brain. This book is a philosophical examination of how

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these disciplines continue in the mission of explaining our mental capacities.

How do brains make minds? Paul Thagard presents a unified, brain-based theory of cognition and emotion with applications to the most complex kinds of thinking, right up to

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consciousness and creativity. Neural mechanisms are used to explain mental operations for analogy, action, intention, language, and the self. Brain-Mind develops a brilliant account of mental operations using promising new ideas from theoretical neuroscience. Single neurons cannot

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do much by themselves, but groups of neurons work together to accomplish powerful kinds of mental representation, including concepts, images, and rules. Minds enable people to perceive, imagine, solve problems, understand, learn, speak, reason, create, and be emotional and

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conscious. Competing explanations of how the mind works have identified it as soul, computer, brain, dynamical system, or social construction. This book explains minds in terms of interacting mechanisms operating at multiple levels, including the social, mental, neural, and molecular.

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Unification comes from systematic application of Chris Eliasmith's powerful Semantic Pointer Architecture, a highly original synthesis of neural network and symbolic ideas about how the mind works. This book belongs to a trio that includes Mind-Society: From Brains to

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Social Sciences and Professions and Natural Philosophy: From Social Brains to Knowledge, Reality, Morality, and Beauty. They can be read independently, but together they make up a Treatise on Mind and Society that provides a unified and comprehensive treatment of the cognitive sciences,

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social sciences, professions, and humanities.

The second edition of the seminal work in the field—revised, updated, and extended In Philosophical Foundations of Neuroscience, M.R. Bennett and P.M.S. Hacker outline and address the conceptual confusions encountered in

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various neuroscientific and psychological theories. The result of a collaboration between an esteemed philosopher and a distinguished neuroscientist, this remarkable volume presents an interdisciplinary critique of many of the neuroscientific and psychological foundations of modern

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cognitive neuroscience. The authors point out conceptual entanglements in a broad range of major neuroscientific and psychological theories—including those of such neuroscientists as Blakemore, Crick, Damasio, Dehaene, Edelman, Gazzaniga, Kandel, Kosslyn, LeDoux, Libet, Penrose,

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Posner, Raichle and Tononi, as well as psychologists such as Baar, Frith, Glynn, Gregory, William James, Weiskrantz, and biologists such as Dawkins, Humphreys, and Young. Confusions arising from the work of philosophers such as Dennett, Chalmers, Churchland, Nagel and

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Searle are subjected to detailed criticism. These criticisms are complemented by constructive analyses of the major cognitive, cogitative, emotional and volitional attributes that lie at the heart of cognitive neuroscientific research. Now in its second edition, this

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groundbreaking work has been exhaustively revised and updated to address current issues and critiques. New discussions offer insight into functional magnetic resonance imaging (fMRI), the notions of information and representation, conflict monitoring and the executive, minimal

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states of consciousness, integrated information theory and global workspace theory. The authors also reply to criticisms of the fundamental arguments posed in the first edition, defending their conclusions regarding mereological fallacy, the necessity of distinguishing between empirical and

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conceptual questions, the mind-body problem, and more. Essential as both a comprehensive reference work and as an up-to-date critical review of cognitive neuroscience, this landmark volume: Provides a scientifically and philosophically informed survey of the conceptual problems in a wide variety

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of neuroscientific theories Offers a clear and accessible presentation of the subject, minimizing the use of complex philosophical and scientific jargon Discusses how the ways the brain relates to the mind affect the intelligibility of neuroscientific research Includes fresh insights on mind-body

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and mind-brain relations, and on the relation between the notion of person and human being Features more than 100 new pages and a wealth of additional diagrams, charts, and tables Continuing to challenge and educate readers like no other book on the subject, the second edition of

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Philosophical Foundations of Neuroscience is required reading not only for neuroscientists, psychologists, and philosophers, but also for academics, researchers, and students involved in the study of the mind and consciousness.

A Critical Appraisal of Cognitive

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Neuroscience

A Philosophical Introduction

Philosophy of Mind, Cognitive

Neuroscience, and Delusional Thought

Brain, Mind, and Language

Philosophy and Neuroscience

Mind, Cognition, and Neuroscience

Consciousness

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Applying insights from neuroscience to philosophical questions about the self, consciousness, and the healthy mind. Can we “see” or “find” consciousness in the brain? How can we create working definitions of consciousness and subjectivity,

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informed by what contemporary research and technology have taught us about how the brain works? How do neuronal processes in the brain relate to our experience of a personal identity? Where does the brain end and the mind begin?

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To explore these and other questions, esteemed philosopher and neuroscientist Georg Northoff turns to examples of unhealthy minds. By investigating consciousness through its absence—in people in vegetative

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states, for example—we can develop a model for understanding its presence in an active, healthy person. By examining instances of distorted self-recognition in people with psychiatric disorders, like schizophrenia, we can begin to

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understand how the experience of “self” is established in a stable brain. Taking an integrative approach to understanding the self, consciousness, and what it means to be mentally healthy, this book brings insights from neuroscience to

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bear on philosophical questions.

Readers will find a science-grounded examination of the human condition with far-reaching implications for psychology, medicine, our daily lives, and beyond.

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This carefully designed, multi-authored textbook covers a broad range of theoretical issues in cognitive science, psychology, and neuroscience. With accessible language, a uniform structure, and many pedagogical features, Mind,

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Cognition, and Neuroscience: A Philosophical Introduction is the best high-level overview of this area for an interdisciplinary readership of students. Written specifically for this volume by experts in their fields who are also experienced teachers, the

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book's thirty chapters are organized into the following parts: I.

Background Knowledge II. Classical Debates III. Consciousness IV.

Crossing Boundaries Each chapter starts with relevant key words and definitions and a chapter overview,

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then presents historical coverage of the topic, explains and analyzes contemporary debates, and ends with a sketch of cutting edge research. A list of suggested readings and helpful discussion topics conclude each chapter. This

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uniform, student-friendly design makes it possible to teach a cohort of both philosophy and interdisciplinary students without assuming prior understanding of philosophical concepts, cognitive science, or neuroscience. Key

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Features: Synthesizes the now decades-long explosion of scientifically informed philosophical research in the study of mind.

Expands on the offerings of other textbooks by including chapters on language, concepts and non-

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conceptual content, and animal cognition. Offers the same structure in each chapter, moving the reader through an overview, historical coverage, contemporary debates, and finally cutting-edge research. Packed with pedagogical features,

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like defined Key Terms, Suggested Readings, and Discussion Questions for each chapter, as well as a General Glossary. Provides readers with clear, chapter-long introductions to Cognitive Neuroscience, Molecular and

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Cellular Cognition, Experimental Methods in Cognitive Neuroscience, Philosophy of Mind, Philosophy of Science, Metaphysical Issues, and Epistemic Issues.

Neurophilosophy is a rich interdisciplinary study of the

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prospects for a unified cognitive neurobiology. Contemporary research in the empirical neurosciences, and recent research in the philosophy of mind and the philosophy of science, are used to illuminate fundamental

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questions concerning the relation between abstract cognitive theory and substantive neuroscience. A Bradford Book.

In this book, William R. Uttal continues his analysis and critique of theories of mind. This book

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considers theories that are based on macroneural responses (such as those obtained from fMRI) that represent the averaged or cumulative responses of many neurons. The analysis is carried out with special emphasis on the logical

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and conceptual difficulties in developing a theory but with special attention to some of the current attempts to go from these cumulative responses to explanations of the grand question of how the mind is generated by the

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brain. While acknowledging the importance of these macroneural techniques in the study of the anatomy and physiology of the brain, Uttal concludes that this macroneural approach is not likely to produce a valid neural theory of

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cognition because the critical information—the states of the individual neurons—involved in brain activity becoming mental activity is actually lost in the process of summation.

Controversial topics are considered

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*in detail including discussions of
empirical, logical, and technological
barriers to theory building in
cognitive neuroscience.*

Philosophy of the Brain

Philosophy of Mind for the 21st

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Minds, Brains, and Law

Cognition and the Brain

Brain-Mind

*Brain, Mind and Consciousness in
the History of Neuroscience*

This book brings together a number

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of essays that are optimistic about the ways certain neuroscientific insights might advance philosophical ethics, and other essays that are more circumspect about the relevance of neuroscience to philosophical ethics. As a whole, the essays form a self-reflective body of work that

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simultaneously seeks to derive normative ethical implications from neuroscience, and to question whether and how that may be possible at all. In doing so, the collection brings together psychology, neuroscience, philosophy of mind, ethics, and

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philosophy of science. Neuroscience seeks to understand the biological systems that guide human behavior and cognition. Normative ethics, on the other hand, seeks to understand the system of abstract moral principles dictating how people ought to behave. By studying how

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the human brain makes moral judgments, can philosophers learn anything about the nature of morality itself? A growing number of researchers believe that neuroscience can, indeed, provide insights into the questions of philosophical ethics. However, even these advocates

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acknowledge that the path from neuroscientific is to normative ethical ought can be quite fraught.

A collection of original essays by major thinkers, addressing how the biological sciences inform and inspire philosophical research.

This collection brings together a set

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of new papers that advance the debate concerning the nature of explanation in mind and brain science, and help to clarify the prospects for bonafide integration across these fields. Long a topic of debate among philosophers and scientists alike, there is growing

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appreciation that understanding the complex relationship between the psychological sciences and the neurosciences, especially how their respective explanatory frameworks interrelate, is of fundamental importance for achieving progress across these scientific domains.

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Traditional philosophical discussions tend to construe the relationship between them in stark terms - either they are related in terms of complete independence (i.e., autonomy) or complete dependence (i.e., reduction), leaving little room for more interesting relations such as

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that of mutually beneficial interaction or integration. A unifying thread across the diverse set of contributions to this volume is the rejection of the assumption that no stable middle ground exists between these two extremes, and common embrace of the idea that these sciences are

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partially dependent on or constrained by one another. By addressing whether the explanatory patterns employed across these domains are similar or different in kind, and to what extent they inform and constrain each another, this volume helps to deepen our understanding of

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the prospects for successfully integrating mind and brain science. Philosophers and neuroscientists address central issues in both fields, including morality, action, mental illness, consciousness, perception, and memory. Philosophers and neuroscientists grapple with the

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same profound questions involving consciousness, perception, behavior, and moral judgment, but only recently have the two disciplines begun to work together. This volume offers fourteen original chapters that address these issues, each written by a team that includes at least one

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philosopher and one neuroscientist who integrate disciplinary perspectives and reflect the latest research in both fields. Topics include morality, empathy, agency, the self, mental illness, neuroprediction, optogenetics, pain, vision, consciousness, memory, concepts,

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mind wandering, and the neural basis of psychological categories. The chapters first address basic issues about our social and moral lives: how we decide to act and ought to act toward each other, how we understand each other ' s mental states and selves, and how we deal

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with pressing social problems regarding crime and mental or brain health. The following chapters consider basic issues about our mental lives: how we classify and recall what we experience, how we see and feel objects in the world, how we ponder plans and alternatives,

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and how our brains make us
conscious and create specific mental
states.

Unraveling the Mystery of How the
Brain Makes the Mind

New Foundations for Naturalism

Explanation and Integration in Mind
and Brain Science

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Brain, Mind, And Language

Brain, Mind, and the Structure of
Reality

Psychology, Neurophysiology, and
Philosophy on the Mind, Body and
Brain

How Biology Shapes Philosophy
Philosophical and Scientific
Perspectives

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Why is life worth living? What makes actions right or wrong? What is reality and how do we know it? The Brain and the Meaning of Life draws on research in philosophy, psychology, and neuroscience to

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answer some of the most pressing questions about life's nature and value. Paul Thagard argues that evidence requires the abandonment of many traditional ideas about the soul, free will, and immortality, and shows how brain

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science matters for fundamental issues about reality, morality, and the meaning of life. The ongoing Brain Revolution reveals how love, work, and play provide good reasons for living. Defending the superiority of evidence-based

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reasoning over religious faith and philosophical thought experiments, Thagard argues that minds are brains and that reality is what science can discover. Brains come to know reality through a combination of

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perception and reasoning. Just as important, our brains evaluate aspects of reality through emotions that can produce both good and bad decisions. Our cognitive and emotional abilities allow us to understand reality,

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decide effectively, act morally, and pursue the vital needs of love, work, and play. Wisdom consists of knowing what matters, why it matters, and how to achieve it.

The Brain and the Meaning of Life shows how brain science

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helps to answer questions about the nature of mind and reality, while alleviating anxiety about the difficulty of life in a vast universe. The book integrates decades of multidisciplinary research, but its clear explanations and humor

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make it accessible to the general reader.

This volume establishes the conceptual foundation for sustained investigation into tool development in neuroscience.

Neuroscience relies on diverse and

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sophisticated experimental tools,
and its ultimate explanatory
target—our brains and hence the
organ driving our
behaviors—catapults the
investigation of these research
tools into a philosophical

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spotlight. The chapters in this volume integrate the currently scattered work on tool development in neuroscience into the broader philosophy of science community. They also present an accessible compendium for

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neuroscientists interested in the broader theoretical dimensions of their experimental practices. The chapters are divided into five thematic sections. Section 1 discusses the development of revolutionary research tools

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across neuroscience's history and argues to various conclusions concerning the relationship between new research tools and theory progress in neuroscience. Section 2 shows how a focus on research tools and their

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development in neuroscience transforms some traditional epistemological issues and questions about knowledge production in philosophy of science. Section 3 speaks to the most general questions about the

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way we characterize the nature of the portion of the world that this science addresses. Section 4 discusses hybrid research tools that integrate laboratory and computational methods in exciting new ways. Finally, Section 5

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extends research on tool development to the related science of genetics. The Tools of Neuroscience Experiment will be of interest to philosophers and philosophically minded scientists working at the intersection of

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History of Cognitive Neuroscience documents the major neuroscientific experiments and theories over the last century and a half in the domain of cognitive neuroscience, and evaluates the

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coGENCY of the conclusions that have been drawn from them.

Provides a companion work to the highly acclaimed Philosophical Foundations of Neuroscience - combining scientific detail with philosophical insights Views the

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evolution of brain science through
the lens of its principal figures and
experiments Addresses
philosophical criticism of Bennett
and Hacker's previous book
Accompanied by more than 100
illustrations

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From Neurons to Consciousness
and Creativity (Treatise on Mind
and Society)

Measuring the Immeasurable
Mind

The Philosophy and Neuroscience

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Movement

Philosophy of Cognitive

Neuroscience

The brain problem

Neurophilosophy

From the Mind-Body to the

World-Brain Problem

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*Neuroscience and Philosophy Brain, Mind,
and Language Columbia University Press*

*This book addresses the philosophical
questions that arise when neuroscientific
research and technology are applied in the
legal system. The empirical, practical,
ethical, and conceptual issues that Pardo
and Patterson seek to redress will deeply*

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influence how we negotiate and implement the fruits of neuroscience in law and policy in the future.

Writing from a scientifically and philosophically informed perspective, the authors provide a critical overview of the conceptual difficulties encountered in many current neuroscientific and psychological

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theories.

An up to date and comprehensive overview of the philosophy and neuroscience movement. At the heart of the movement is the conviction that basic questions about human cognition can be answered only by a philosophically sophisticated grasp of neuroscience's insights into the processing of

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information by the human brain.

An Introduction to the Philosophy of Mind

Discussing Cognitive Neuroscience

The Brain Problem

The Measure of Madness

A Ruthlessly Reductive Account

The Consciousness Instinct

This volume brings together new

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papers advancing contemporary debates in foundational, conceptual, and methodological issues in cognitive neuroscience. The different perspectives presented in each chapter have previously been discussed

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between the authors, as the volume builds on the experience of Neural Mechanisms (NM) Online – webinar series on the philosophy of neuroscience organized by the editors of this volume. The contributed

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chapters pertain to five core areas in current philosophy of neuroscience. It surveys the novel forms of explanation (and prediction) developed in cognitive neuroscience, and looks at new concepts, methods

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and techniques used in the field.

The book also highlights the metaphysical challenges raised by recent neuroscience and demonstrates the relation between neuroscience and mechanistic philosophy. Finally,

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the book dives into the issue of neural computations and representations. Assembling contributions from leading philosophers of neuroscience, this work draws upon the expertise of both established

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scholars and promising early
career researchers.

This book reviews some of the
most important scientific and
philosophical theories
concerning the nature of mind
and consciousness. Current

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theories on the mind-body problem and the neural correlates of consciousness are presented through a series of biographical sketches of the most influential thinkers across the fields of philosophy of mind,

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psychology and neuroscience.

The book is divided into two parts: the first is dedicated to philosophers of mind and the second, to neuroscientists/experimental psychologists. Each part

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comprises twenty short chapters, with each chapter being dedicated to one author. A brief introduction is given on his or her life and most important works and influences. The most influential theory/ies developed

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by each author are then carefully explained and examined with the aim of scrutinizing the strengths and weaknesses of the different approaches to the nature of consciousness.

Explaining consciousness is one

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of the last great unanswered scientific and philosophical problems. Immediately known, familiar and obvious, consciousness is also baffling, opaque and strange. This introduction to the problems

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posed by consciousness

discusses the most important

work of cognitive science,

neurophysiology and philosophy

of mind of the past thirty years

and presents an up to date

assessment of the issues and

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debates. The reader is first introduced to the way that consciousness has been thought about in the history of philosophy and psychology. The author then presents an informal and largely non-technical account of the

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properties of consciousness that are thought to be the most paradigmatic and problematic.

Recent scientific work on consciousness, from neurophysiological studies of the brain and evolutionary studies of

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the development of consciousness to computational theories of the mind are then examined and the philosophical problems that these accounts raise are systematically introduced. The final chapters of

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the book consider more practical matters by addressing self-deception, neuroses, the unconscious and notions of the self, before concluding with an assessment of the future for psychology and the philosophy

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of mind.

This volume of essays examines the problem of mind, looking at how the problem has appeared to neuroscientists (in the widest sense) from classical antiquity through to contemporary times.

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Beginning with a look at
ventricular neuropsychology in
antiquity, this book goes on to
look at Spinozan ideas on the
links between mind and body,
Thomas Willis and the
foundation of Neurology,

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Hooke's mechanical model of the mind and Joseph Priestley's approach to the mind-body problem. The volume offers a chapter on the 19th century Ottoman perspective on western thinking. Further chapters trace

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the work of nineteenth century scholars including George Henry Lewes, Herbert Spencer and Emil du Bois-Reymond. The book covers significant work from the twentieth century, including an examination of

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Alfred North Whitehead and the history of consciousness, and particular attention is given to the development of quantum consciousness. Chapters on slavery and the self and the development of an

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understanding of Dualism bring this examination up to date on the latest 21st century work in the field. At the heart of this book is the matter of how we define the problem of consciousness itself: has there been any

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progress in our understanding of
the working of mind and brain?

This work at the interface
between science and the
humanities will appeal to experts
from across many fields who
wish to develop their

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understanding of the problem of
consciousness, including
scholars of Neuroscience,
Behavioural Science and the
History of Science.