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*Cognitive Neuroscience: A Reader
provides the first definitive
collection of readings in this*

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burgeoning area of study.

This text balances experimental and clinical perspectives with a survey of a variety of mental functions. In a conversational style, the authors provide clear, accessible explanations of difficult concepts,

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making use of analogies and case studies to illustrate them. A consistent structure throughout each chapter defines a mental function and the role of each part or parts of the brain in that function, followed by a discussion

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of what neuropsychological syndromes say about the cognitive and neural organization of the mental function. Important Notice: Media content referenced within the product description or the product text may not be available in

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the ebook version.

An integrated, comprehensive survey of biomedical imaging modalities An important component of the recent expansion in bioengineering is the area of biomedical imaging. This book

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provides in-depth coverage of the field of biomedical imaging, with particular attention to an engineering viewpoint. Suitable as both a professional reference and as a text for a one-semester course for biomedical engineers or medical

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technology students, Introduction to Biomedical Imaging covers the fundamentals and applications of four primary medical imaging techniques: magnetic resonance imaging, ultrasound, nuclear medicine, and X-ray/computed

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tomography. Taking an accessible approach that includes any necessary mathematics and transform methods, this book provides rigorous discussions of: The physical principles, instrumental design, data

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acquisition strategies, image reconstruction techniques, and clinical applications of each modality Recent developments such as multi-slice spiral computed tomography, harmonic and sub-harmonic ultrasonic imaging, multi-

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*slice PET scanning, and functional
magnetic resonance imaging*

*General image characteristics such
as spatial resolution and signal-to-
noise, common to all of the imaging
modalities*

[Publisher-supplied data] This text

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balances experimental and clinical perspectives with a survey of a variety of mental functions. In a conversational style, the authors provide clear, accessible explanations of difficult concepts, making use of analogies and case

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*syndromes say about the cognitive
and neural organization of the
mental function.*

*Cognition, Brain, and
Consciousness*

Neurologic Differential Diagnosis

The Neuroscience of Emotion

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*The Behavioral and Cognitive
Neurology of Stroke
Cognitive Neuroscience of
Language*

Get on the fast track to
understanding neuroscience
Investigating how your

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senses work, how you move,
and how you think and
feel, Neuroscience For
Dummies, 2nd Edition is
your straight-forward
guide to the most
complicated structure

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known in the universe: the brain. Covering the most recent scientific discoveries and complemented with helpful diagrams and engaging anecdotes that help bring

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the information to life,
this updated edition
offers a compelling and
plain-English look at how
the brain and nervous
system function. Simply
put, the human brain is an

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endlessly fascinating subject: it holds the secrets to your personality, use of language, memories, and the way your body operates. In just the past

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few years alone, exciting new technologies and an explosion of knowledge have transformed the field of neuroscience—and this friendly guide is here to serve as your roadmap to

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the latest findings and research. Packed with new content on genetics and epigenetics and increased coverage of hippocampus and depression, this new edition of Neuroscience

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For Dummies is an eye-opening and fascinating read for readers of all walks of life. Covers how gender affects brain function Illustrates why some people are more

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sensitive to pain than others Explains what constitutes intelligence and its different levels Offers guidance on improving your learning What is the biological

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basis of consciousness?
How are mental illnesses
related to changes in
brain function? Find the
answers to these and
countless other questions
in Neuroscience For

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Dummies, 2nd Edition

Does drinking really kill
brain cells? Does
listening to Mozart make
your baby smarter? For all
the mileage we've gotten
from our own brains, most

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of us have essentially no idea how they work. We're easily susceptible to myths (like the "fact" that we use only 10% of our brains) and misconceptions (like the

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ones perpetrated by most Hollywood movies), probably because we've never known where to turn for the truth. But neurologists Sandra Aamodt and Sam Wang are glad to

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help. In this funny, accessible book, we get a guided tour of our own minds, what they're made of, how they work, and how they can go wrong. Along the way, we get a host of

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diagrams, quizzes, and "cocktail party tips" that shed light on the questions we nag each other about. (Can a head injury make you forget your own name? Are

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dolphins smarter than chimpanzees?) Fun and surprisingly engrossing, Welcome to Your Brain shows you how your brain works, and how you can make it work better.

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This volume presents chapters from internationally renowned scholars in the area of goals and social behavior. The book is organized around a series of topics

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that are of critical importance to understanding the social-cognitive aspects of goal-directed behavior. In each chapter, the authors offer an introduction to past

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research on a specific topic and combine this with a presentation of their own empirical work to provide an integrated overview of the topic at hand. As a whole, this

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volume is designed to provide a broad portrait of goal research as it has been and is currently being conducted in the social psychological literature. It serves as

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an introduction to essential issues, while at the same time offering a sampling of cutting-edge research on core topics in the study of goal-directed behavior, such as how

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goals are represented, where goals come from, and what goals do in the process of regulation. A new framework for the neuroscientific study of emotions in humans and

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animals The Neuroscience
of Emotion presents a new
framework for the
neuroscientific study of
emotion across species.

Written by Ralph Adolphs
and David J. Anderson, two

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leading authorities on the study of emotion, this accessible and original book recasts the discipline and demonstrates that in order to understand emotion, we

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need to examine its biological roots in humans and animals. Only through a comparative approach that encompasses work at the molecular, cellular, systems, and cognitive

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levels will we be able to comprehend what emotions do, how they evolved, how the brain shapes their development, and even how we might engineer them into robots in the future.

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Showing that emotions are ubiquitous across species and implemented in specific brain circuits, Adolphs and Anderson offer a broad foundation for thinking about emotions as

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evolved, functionally defined biological states. The authors discuss the techniques and findings from modern neuroscientific investigations of emotion

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and conclude with a survey of theories and future research directions.

Featuring color illustrations throughout, The Neuroscience of Emotion synthesizes the

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latest in neuroscientific
work to provide deeper
insights into how emotions
function in all of us.

A Reader

The Neuroscience of
Expertise

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Neuroscience For Dummies
Adoption Beyond Borders
The Neuroscience of
Creativity

Contrary to common belief, suicide
is preventable and insights from
neuroscientific research show how.

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The fourth edition of the work that defines the field of cognitive neuroscience, offering completely new material.

"Cognitive Psychology: The Basics provides a compact introduction to the core topics in the field,

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discussing the science behind the everyday cognitive phenomena experienced by us all. The book considers laboratory and applied theory and research alongside technological developments to demonstrate how our understanding

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of the brain's role in cognition is improving all the time. Alongside coverage of traditional topics in the field, including attention and perception; learning and memory; thinking, problem-solving and decision-making; and language, the

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book also discusses developments in interrelated areas, such as neuroscience and computational cognitive science. New perspectives, including the contribution of evolutionary psychology to our understanding of cognition are also

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considered before a thoughtful discussion of future research directions. Using real-world examples throughout, the authors explain in an accessible and student-friendly manner the role our human cognition plays in all aspects of our

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lives. It is an essential introductory text suitable for all students of Cognitive Psychology and related disciplines. It will also be an ideal read for any reader interested in the role of the brain in human behavior" --

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Language is one of our most precious and uniquely human capacities, so it is not surprising that research on its neural substrates has been advancing quite rapidly in recent years. Until now, however, there has not been a single

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introductory textbook that focuses specifically on this topic. Cognitive Neuroscience of Language fills that gap by providing an up-to-date, wide-ranging, and pedagogically practical survey of the most important developments in the field.

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It guides students through all of the major areas of investigation, beginning with fundamental aspects of brain structure and function, and then proceeding to cover aphasia syndromes, the perception and production of speech, the processing

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of language in written and signed modalities, the meanings of words, and the formulation and comprehension of complex expressions, including grammatically inflected words, complete sentences, and entire stories. Drawing heavily

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on prominent theoretical models, the core chapters illustrate how such frameworks are supported, and sometimes challenged, by experiments employing diverse brain mapping techniques. Although much of the content is inherently

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challenging and intended primarily for graduate or upper-level undergraduate students, it requires no previous knowledge of either neuroscience or linguistics, defining technical terms and explaining important principles from both

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disciplines along the way.

The Neuroscience of Suicidal
Behavior

The Cambridge Handbook of
Psychology and Human Rights

Introduction to Biomedical Imaging

Why You Lose Your Car Keys but

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Never Forget How to Drive and
Other Puzzles of Everyday Life
Processes and Disorders
Explores how the explosion
of neuroscience-based
evidence in recent years has
led to a fundamental change

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in how forensic psychology can inform working with criminal populations. This book communicates knowledge and research findings in the neurobiological field to those who work with offenders and those who

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design policy for offender rehabilitation and criminal justice systems, so that practice and policy can be neurobiologically informed, and research can be enhanced. Starting with an introduction to the subject

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of neuroscience and forensic
settings, The Wiley
Blackwell Handbook of
Forensic Neuroscience then
offers in-depth and
enlightening coverage of the
neurobiology of sex and
sexual attraction,

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aggressive behavior, and emotion regulation; the neurobiological bases to risk factors for offending such as genetics, developmental, alcohol and drugs, and mental disorders; and the neurobiology of

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offending, including psychopathy, antisocial personality disorders, and violent and sexual offending. The book also covers rehabilitation techniques such as brain scanning, brain-based

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therapy for adolescents, and
compassion-focused therapy.
The book itself: Covers a
wide array of neuroscience
research Chapters by
renowned neuroscientists and
criminal justice experts
Topics covered include the

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neurobiology of aggressive behavior, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment Offers conclusions for practitioners and future

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directions for the field. The Handbook of Forensic Neuroscience is a welcome book for all researchers, practitioners, and postgraduate students involved with forensic psychology, neuroscience,

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law, and criminology.
Integrates a neuroscience
approach to study aging. In
addition to covering
standard cognitive
functions, it incorporates
socioemotional abilities.
This volume provides a

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comprehensive view of the latest research in brain asymmetry, offering not only recent empirical and clinical findings but also a coherent theoretical approach to the subject. Updated fully, this

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accessible and comprehensive text highlights the most important theoretical, conceptual and methodological issues in cognitive neuroscience. Written by two experienced teachers, the consistent

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narrative ensures that students link concepts across chapters, and the careful selection of topics enables them to grasp the big picture without getting distracted by details. Clinical applications such

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as developmental disorders, brain injuries and dementias are highlighted. In addition, analogies and examples within the text, opening case studies, and 'In Focus' boxes engage students and demonstrate the

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relevance of the material to real-world concerns.

Students are encouraged to develop the critical thinking skills that will enable them to evaluate future developments in this fast-moving field. A new

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chapter on Neuroscience and Society considers how cognitive neuroscience issues relate to the law, education, and ethics, highlighting the clinical and real-world relevance. An expanded online package

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includes a test bank.

The Basics

Information Processing in
the Cerebral Hemispheres

An Introduction to Cognitive
Psychology

The Cognitive Neurosciences

Affective Neuroscience in

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Psychotherapy

As scientific inquiry and public interest in the adolescent brain grows, so too does the need for an accessible textbook that communicates the growing research on this topic. The

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Neuroscience of Adolescence is a comprehensive educational tool for developmental cognitive neuroscience students at all levels as it details the varying elements that shape the adolescent brain. Historical

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notions of adolescence have focused on the significant hormonal changes that occur as one transitions from childhood to adolescence, but new research has revealed a more nuanced picture that helps inform our

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understanding of how the brain functions across the lifespan. By emphasizing the biological and neurobiological changes that occur during adolescence, this book gives students a holistic understanding of this

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developmental window and uniquely discusses the policy implications of neuroscience research on the lives of young people today.

Most psychological disorders involve distressful emotions, yet

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emotions are often regarded as secondary in the etiology and treatment of psychopathology. This book offers an alternative model of psychotherapy, using the patient's emotions as the focal point of treatment. This

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unique text approaches emotions as the primary source of intervention, where emotions are appreciated, experienced, and learned from as opposed to being regulated solely. Based on the latest developments in

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affective neuroscience, Dr. Stevens applies science-based interventions with a sequential approach for helping patients with psychological disorders. Chapters focus on how to use emotional awareness, emotional

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validation, self-compassion, and affect reconsolidation in therapeutic practice.

Interventions for specific emotions such as anger, abandonment, jealousy, and desire are also addressed. This

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book is essential reading for
clinicians practicing
psychotherapy, social workers
and licensed mental health
counselors, as well as anyone
interested in the emotional
science behind the brain.

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International adoptions have decreased dramatically in the last decade, despite robust evidence of the tremendous benefits that early placement in adoptive families can confer upon children who are not able

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to remain with birth families.

Adoption Beyond Borders
integrates evidence from a range
of disciplines in the social and
biological sciences-- including
psychology, neuroscience,
evolutionary biology, sociology,

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anthropology, and social work --
to provide a ringing endorsement
of international adoption as a
viable child welfare option. The
author interweaves narrative
accounts of her own adoption
journey, which involved visiting a

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Kazakhstani orphanage daily for nearly a year, to illustrate the complexities and implications of the research evidence. Topics include: the effects of institutionalization on children's developing brains, cognitive

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abilities, and socio-emotional functioning; the challenges of navigating issues of identity when adopting across national, cultural, and racial lines; the strong emotional bonds that form even without genetic

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relatedness; and the methods in which adoptive families can address the special needs of children who experienced early neglect and deprivation, thereby providing a supportive environment in which those

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children can flourish. Striving to attain a balanced, evidence-based perspective on controversial issues, *Adoption Beyond Borders* argues that international adoption must be maintained and supported as a

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vital means of promoting
international child welfare.

Comprehensively examining the
relationship between cognition
and emotion, this authoritative
handbook brings together
leading investigators from

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multiple psychological
subdisciplines. Biological
underpinnings of the cognition-
emotion interface are reviewed,
including the role of
neurotransmitters and hormones.
Contributors explore how key

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cognitive processes -- such as attention, learning, and memory -- shape emotional phenomena, and vice versa. Individual differences in areas where cognition and emotion interact -- such as agreeableness and

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emotional intelligence -- are addressed. The volume also analyzes the roles of cognition and emotion in anxiety, depression, borderline personality disorder, and other psychological disorders.

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The Social, Emotional, and
Cognitive Dimensions of
Stuttering
Reviews of Current Research
and Theories

Cognition and Emotion

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Understanding the Brain: From
Cells to Behavior to Cognition
*Cognitive Neuroscience and
Neuropsychology.*
*More Than Fluency: The
Social, Emotional, and
Cognitive Dimensions of*

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Stuttering provides a thoughtful and contemporary framework for speech-language pathologists and others working with people who stutter. The text focuses on the social, emotional, and

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*cognitive realms of
stuttering and offers new
insights and applications
based on research in the
field. It guides the reader
through theoretical
discussions about the social*

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experiences, emotional complications, and cognitive interpretations that often influence the person who stutters. The text also offers practical strategies for intervention from

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contributing authors who are prominent theorists, researchers, and practitioners in the field of fluency and stuttering. In line with the current multifactorial view of

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*stuttering, More Than
Fluency emphasizes the
social, emotional, and
cognitive aspects of
stuttering, drawing
important connections
between them. The authors*

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*present a variety of
therapeutic interventions
and techniques along with
practical guidelines that
have been designed to
alleviate distress in those
who stutter. Although these*

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interventions differ in approach, each offers their own roadmap to support and empower people who stutter. The idea for this book grew out of the insights gained from listening to both clients

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and graduate students.

*Clients wanted to talk about
their life experiences as a
person who stutters.*

*Graduate students often
described their worry and
uncertainty when dealing*

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with the emotional and social issues of their clients who stutter. Similarly, many practicing speech-language pathologists also have concerns about treating people who stutter,

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especially regarding the social, emotional, and cognitive aspects of the disorder, areas not typically taught in traditional coursework. More Than Fluency was developed for

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practicing speech-language pathologists and other professionals who evaluate and treat people who stutter. It is also intended to be an academic textbook used in graduate courses on fluency

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and stuttering. This text provides a collection of well-thought-out programs and approaches that help treat the whole person, not just his or her stuttering. The authors believe that this is

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*best practice because
successfully treating a
person who stutters
encompasses treating more
than fluency.*

*A new edition of the
essential resource on using*

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functional neuroimaging techniques to study the neural basis of cognition, revised with the student in mind; thoroughly updated, with new chapters on fMRI physics, skill learning,

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*emotion and social cognition,
and other topics. This
essential resource on
neuroimaging provides an
accessible and user-friendly
introduction to the field
written by leading*

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researchers. The book describes theoretical and methodological developments in the use of functional neuroimaging techniques to study the neural basis of cognition,

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from early scientific efforts to link brain and behavior to the latest applications of fMRI and PET methods. The core of the book covers fMRI and PET studies in specific domains: attention, skill

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learning, semantic memory, language, episodic memory, working memory, and executive functions. By introducing a technique within the description of a domain, the book offers a

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clear explanation of the process while highlighting its biological context. The emphasis on readability makes Handbook of Functional Neuroimaging of Cognition ideal for classroom

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*use in advanced
undergraduate and graduate
courses in cognitive
neuroscience. This second
edition has been completely
updated to reflect new
developments in the field,*

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*with existing chapters
rewritten and new chapters
added to each section. The
section on history and
methods now includes a
chapter on the crucial topic
of the physics of functional*

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neuroimaging; the chapters on skill learning and executive functions are new to the domain section; and chapters on childhood development and emotion and social cognition have

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been added to the section on developmental, social, and clinical applications. The color insert has been increased in size, enhancing the visual display of representative findings.

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Cognitive

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University Press

How International Adoption

Benefits Children

Cognitive and Social

Neuroscience of Aging

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More Than Fluency
Introduction to Cognitive
Neuroscience
The Neuroscience of
Intelligence

"There is an apocryphal story of an eminent neurology professor who

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was asked to provide a differential diagnosis. He allegedly quipped: "I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis." Sadly, this sort of arrogance pervaded our field, particularly in the era before

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there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases

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of the nervous system"--

The care of stroke patients has changed dramatically. As well as improvements in the emergency care of the condition, there have been marked advances in our understanding, management and rehabilitation of residual deficits.

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This book is about the care of stroke patients, focusing on behavioural and cognitive problems. It provides a comprehensive review of the field covering the diagnostic value of these conditions, in the acute and later phases, their requirements in

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terms of treatment and management and the likelihood and significance of long-term disability. This book will appeal to all clinicians involved in the care of stroke patients, as well as to neuropsychologists, other rehabilitation therapists and

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research scientists investigating the underlying neuroscience. This is a comprehensive undergraduate textbook which provides, in a single volume, chapters on both normal cognitive function and related clinical disorder.

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Metaphor has been an issue of intense research and debate for decades (see, for example [1]). Researchers in various disciplines, including linguistics, psychology, computer science, education, and philosophy have developed a variety of theories, and much

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progress has been made [2]. For one, metaphor is no longer considered a rhetorical flourish that is found mainly in literary texts. Rather, linguists have shown that metaphor is a pervasive phenomenon in everyday language, a major force in the development of

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new word meanings, and the source of at least some grammatical function words [3]. Indeed, one of the most influential theories of metaphor involves the suggestion that the commonality of metaphoric language results because cross-domain mappings are a major

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determinant in the organization of semantic memory, as cognitive and neural resources for dealing with concrete domains are recruited for the conceptualization of more abstract ones [4]. Researchers in cognitive neuroscience have explored whether particular kinds of

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brain damage are associated with metaphor production and comprehension deficits, and whether similar brain regions are recruited when healthy adults understand the literal and metaphorical meanings of the same words (see [5] for a review) .

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Whereas early research on this topic focused on the issue of the role of hemispheric asymmetry in the comprehension and production of metaphors [6], in recent years cognitive neuroscientists have argued that metaphor is not a monolithic category, and that

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metaphor processing varies as a function of numerous factors, including the novelty or conventionality of a particular metaphoric expression, its part of speech, and the extent of contextual support for the metaphoric meaning (see, e.g., [7],

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[8], [9]). Moreover, recent developments in cognitive neuroscience point to a sensorimotor basis for many concrete concepts, and raise the issue of whether these mechanisms are ever recruited to process more abstract domains [10]. This

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Frontiers Research Topic brings together contributions from researchers in cognitive neuroscience whose work involves the study of metaphor in language and thought in order to promote the development of the neuroscientific investigation of metaphor. Adopting

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an interdisciplinary perspective, it synthesizes current findings on the cognitive neuroscience of metaphor, provides a forum for voicing novel perspectives, and promotes avenues for new research on the metaphorical brain. [1] Arbib, M. A. (1989). The metaphorical brain

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disciplines is currently being addressed by an increasing number of studies that focus on the relationships between cognitive aging and cerebral aging. This rapidly growing body of research has come to constitute a new discipline, which may be called cognitive neuroscience of aging. The

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goal of Cognitive Neuroscience of Aging is to introduce the reader to this new discipline at a level that is useful to both professionals and students in the domains of cognitive neuroscience, cognitive psychology, neuroscience, neuropsychology, neurology, and other, related areas.

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linked to behavioral measures of cognitive aging. The second section reviews evidence for the effects of aging on neural activity during different cognitive functions, including perception and attention, imagery, working memory, long-term memory, and prospective memory.

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The third section focuses on clinical and applied topics, such as the distinction between healthy aging and Alzheimers disease and the use of cognitive training to ameliorate age-related cognitive decline. The last section describes theories that relate cognitive and cerebral aging,

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including models accounting for functional neuroimaging evidence and models supported by computer simulations. Taken together, the chapters in this volume provide the first unified and comprehensive overview of the new discipline of cognitive neuroscience of aging.

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