

Brocas Brain Reflections On The Romance Of Science

Cosmos
The Cambridge Handbook of Biolinguistics
Brain Storm
The Language Instinct
Art of Teaching Primary Science
Conversations with Carl Sagan
Broca's Brain
The Man Who Mistook His Wife For A Hat: And Other Clinical Tales
"The Comet"
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The Symbolic Species: The Co-evolution of Language and the Brain
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Minds behind the Brain : A History of the Pioneers and Their Discoveries
Billions & Billions

Cosmos

Children have an innate curiosity about the natural world that makes teaching science a rewarding experience. However teaching science is an art that requires a unique combination of knowledge and skills to make the most of students' interest and foster their understanding. With contributions from leading educators, The Art of Teaching Primary Science addresses the fundamental issues in teaching science in primary and early childhood years. Reflecting current research in science education, The Art of Teaching Primary Science covers the following areas: * the theoretical underpinnings of science education and curriculum; * effective science teaching practice planning, teaching strategies, investigations, resources and assessment; * key issues including scientific literacy, integrating science and technology, and activities outside the classroom. The Art of Teaching Primary Science is invaluable for student teachers as a guide to the fundamentals of science education, and as a resource for experienced teachers to review and enhance their professional skills. 'An excellent reference for those teachers of the primary years seeking the best ways to engage their students in good science and scientific investigation, and keen to link these with other learning areas.' Peter Turnbull, President, Australian Science Teachers Association

The Cambridge Handbook of Biolinguistics

A classic book by the world's most famous scientist and science visionary, back in print with a new perspective.

Brain Storm

Presents an illustrated guide to the universe and to Earth's relationship to it, moving from theories of creation to humankind's discovery of the cosmos, to general relativity, to space missions, and beyond.

The Language Instinct

Art of Teaching Primary Science

Description: Cartoon published in the Women's Journal.

Conversations with Carl Sagan

The most academically credible case for alien visitation. Is the existence of civilisation on earth the result of contact from inhabitants of a planet in the system of the star Sirius prior to 3000BC? There are tribal cultures in present-day Africa whose most sacred and secret traditions are based on this theory. Central to their cosmology is a body of knowledge concerning the system of the star Sirius that is astounding in its accuracy of detail, including specific information only recently accessible to modern science. Robert Temple traces the traditions of the Dogon and three related tribes back 5,000 years to the ancient Mediterranean cultures of Sumer and Egypt. He shows a knowledge dependent on physics and astrophysics, which they claimed was imported to them by visitors from Sirius.

Broca's Brain

The definitive refutation to the argument of The Bell Curve. When published in 1981, *The Mismeasure of Man* was immediately hailed as a masterwork, the ringing answer to those who would classify people, rank them according to their supposed genetic gifts and limits. And yet the idea of innate limits—of biology as destiny—dies hard, as witness the attention devoted to *The Bell Curve*, whose arguments are here so effectively anticipated and thoroughly undermined by Stephen Jay Gould. In this edition Dr. Gould has written a substantial new introduction telling how and why he wrote the book and tracing the subsequent history of the controversy on innateness right through *The Bell Curve*. Further, he has added five essays on questions of *The Bell Curve* in particular and on race, racism, and biological determinism in general. These additions strengthen the book's claim to be, as Leo J. Kamin of Princeton University has said, "a major contribution toward deflating pseudo-biological 'explanations' of our present social woes."

The Man Who Mistook His Wife For A Hat: And Other Clinical Tales

"Dazzling feast. Absorbing and elegantly written, it tells of the origins of life on earth, describes its variety and character, and culminates in a discussion of human nature and the complex traces of humankind's evolutionary past. It is an amazing story masterfully told." FINANCIAL TIMES (LONDON) World renowned scientist Carl Sagan and acclaimed author Ann Druyan have written a ROOTS for the human species, a lucid and riveting account of how humans got to be the way we are. It shows with humor and drama that many of our key traits--self-awareness, technology, family ties, submission to authority, hatred for those a little different from ourselves, reason, and ethics--are rooted in the deep past, and illuminated by our kinship with other animals. Astonishing in its scope, brilliant in its insights, and an absolutely compelling read, SHADOWS OF FORGOTTEN ANCESTORS is a triumph of popular science. From the Trade Paperback edition.

"The Comet"

Attractively illustrated with over a hundred halftones and drawings, this volume presents a series of vibrant profiles that trace the evolution of our knowledge about the brain. Beginning almost 5000 years ago, with the ancient Egyptian study of "the marrow of the skull," Stanley Finger takes us on a fascinating journey from the classical world of Hippocrates, to the time of Descartes and the era of Broca and Ramon y Cajal, to modern researchers such as Sperry. Here is a truly remarkable cast of characters. We meet Galen, a man of titanic ego and abrasive disposition, whose teachings dominated medicine for a thousand years; Vesalius, a contemporary of Copernicus, who pushed our understanding of human anatomy to new heights; Otto Loewi, pioneer in neurotransmitters, who gave the Nazis his Nobel prize money and fled Austria for England; and Rita Levi-Montalcini, discoverer of nerve growth factor, who in war-torn Italy was forced to do her research in her bedroom. For each individual, Finger examines the philosophy, the tools, the books, and the ideas that brought new insights. Finger also looks at broader topics--how dependent are researchers on the work of others? What makes the time ripe for discovery? And what role does chance or serendipity play? And he includes many fascinating background figures as well, from Leonardo da Vinci and Emanuel Swedenborg to Karl August Weinhold--who claimed to have reanimated a dead cat by filling its skull with silver and zinc--and Mary Shelley, whose Frankenstein was inspired by such experiments. Wide ranging in scope, imbued with an infectious spirit of adventure, here are vivid portraits of giants in the field of neuroscience--remarkable individuals who found new ways to think about the machinery of the mind.

A Path where No Man Thought

A complete applied memory program designed to help readers enhance their mental agility, memory, and public speaking skills features a ten-step method that uses the senses of sight and hearing, along with visualizations, sound-alike words, and associations of objects to assist users in connecting names and faces, finding lost objects, and recalling long strings of numbers. Original.

Broca's Brain

A fascinating book on the joys of discovering how the world works, by the Pulitzer Prize – winning author of *Cosmos* and *Shadows of Forgotten Ancestors*.
“ Magnificent . . . Delightful . . . A masterpiece. A message of tremendous hope for humanity . . . While ever conscious that human folly can terminate man ’ s march into the future, Sagan nonetheless paints for us a mind-boggling future: intelligent robots, the discovery of extraterrestrial life and its consequences, and above all the challenge and pursuit of the mystery of the universe. ” —Chicago Tribune
“ Go out and buy this book, because Carl Sagan is not only one of the world ’ s most respected scientists, he ’ s a great writer. . . . I can give a book no greater accolade than to say I ’ m planning on reading it again. And again. And again. ” —The Miami Herald
“ The brilliant astronomer . . . is persuasive, provocative and readable. ” —United Press International
“ Closely reasoned, impeccably researched, gently humorous, utterly devastating. ” —The Washington Post

The Mismeasure of Man (Revised and Expanded)

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Sagan speculates on the primitive elements of the human mind and the ways the human brain today is coping with new discoveries about the cosmos

Building Large Knowledge-based Systems

Biolinguistics involves the study of language from a broad perspective that embraces natural sciences, helping us better to understand the fundamentals of the faculty of language. This Handbook offers the most comprehensive state-of-the-field survey of the subject available. A team of prominent scholars working in a variety of disciplines is brought together to examine language development, language evolution and neuroscience, as well as providing overviews of the conceptual landscape of the field. The Handbook includes work at the forefront of contemporary research devoted to the evidence for a language instinct, the critical period hypothesis, grammatical maturation, bilingualism, the relation between mind and brain and the role of natural selection in language evolution. It will be welcomed by graduate students and researchers in a wide range of disciplines, including linguistics, evolutionary biology and cognitive science.

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Chapter one presents the Cyc "philosophy" or paradigm. Chapter 2 presents a global overview of Cyc, including its representation language, the ontology of its knowledge base, and the environment which it functions. Chapter 3 goes into much more detail on the representation language, including the structure and function of Cyc's metalevel agenda mechanism. Chapter 4 presents heuristics for ontological engineering, the principles upon which Cyc's ontology is based. Chapter 5 provides a glimpse into the global ontology of knowledge. Chapter 6 explains how we "solve" (i.e., adequately handle) the various tough representation thorns (substances, time, space, structures, composite mental/physical objects, beliefs, uncertainty, etc.). Chapter 7 surveys the mistakes that new knowledge tnereres most often commit. Chapter 8, the concluding chapter, includes a brief status report on the project, and a statement of goals and a timetable for the coming five years.

Descartes' Error

An authoritative survey of current groundbreaking research into the human mind reveals how top international laboratories have innovated unique technologies for recording profound mental capabilities and enabling controversial opportunities in the field of cognition enhancement.

Carl Sagan's Cosmic Connection

"A work of enormous breadth, likely to pleasantly surprise both general readers and experts."—New York Times Book Review This revolutionary book provides fresh answers to long-standing questions of human origins and consciousness. Drawing on his breakthrough research in comparative neuroscience, Terrence Deacon offers a wealth of insights into the significance of symbolic thinking: from the co-evolutionary exchange between language and brains over two million years of hominid evolution to the ethical repercussions that followed man's newfound access to other people's thoughts and emotions. Informing these insights is a new understanding of how Darwinian processes underlie the brain's development and function as well as its evolution. In contrast to much contemporary

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neuroscience that treats the brain as no more or less than a computer, Deacon provides a new clarity of vision into the mechanism of mind. It injects a renewed sense of adventure into the experience of being human.

The Body Keeps the Score

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

Paul Broca and the Origins of Language in the Brain

Worlds in Collision

Since Dr. Brizendine wrote *The Female Brain* ten years ago, the response has been overwhelming. This New York Times bestseller has been translated into more than thirty languages, has sold nearly a million copies between editions, and has most recently inspired a romantic comedy starring Whitney Cummings and Sofia Vergara. And its profound scientific understanding of the nature and experience of the female brain continues to guide women as they pass through life stages, to help men better understand the girls and women in their lives, and to illuminate the delicate emotional machinery of a love relationship. Why are women more verbal than men? Why do women remember details of fights that men can ’ t remember at all? Why do women tend to form deeper bonds with their female friends than men do with their male counterparts? These and other questions have stumped both sexes throughout the ages. Now, pioneering neuropsychiatrist Louann Brizendine, M.D., brings together the latest findings to show how the unique structure of the female brain determines how women think, what they value, how they communicate, and who they love. While doing research as a medical student at Yale and then as a resident and faculty member at Harvard, Louann Brizendine discovered that almost all of the clinical data in existence on neurology, psychology, and neurobiology focused exclusively on males. In response to the overwhelming need for information on the female mind, Brizendine established the first clinic in the country to study and treat women ’ s brain function. In *The*

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Female Brain, Dr. Brizendine distills all her findings and the latest information from the scientific community in a highly accessible book that educates women about their unique brain/body/behavior. The result: women will come away from this book knowing that they have a lean, mean, communicating machine. Men will develop a serious case of brain envy.

Shadows of Forgotten Ancestors

Jordan-Young has written a stunning book that demolishes most of the science associated with the dominant paradigm of the development of sex and gender identity, behavior, and orientation. The current paradigm, brain organization theory, proposes: "Because of early exposure to different sex hormones, males and females have different brains"; and these hormones also create "gay" and "straight" brains. Jordan-Young interviewed virtually every major researcher in the field and reviewed hundreds of published scientific papers. Her conclusion: "Brain organization theory is little more than an elaboration of longstanding folk tales about antagonistic male and female essences and how they connect to antagonistic male and female natures." She explains, in exquisite detail, the flaws in the underlying science, from experimental designs that make no statistical sense to "conceptually sloppy" definitions of male and female sexuality, contradictory results, and the social construction of normality. Her conclusion that the patterns we see are far more complicated than previously believed and due to a wider range of variables will shake up the research community and alter public perception.

The Two Halves of the Brain

Rewire Your Brain

Discovering the Brain

In the final book of his astonishing career, Carl Sagan brilliantly examines the burning questions of our lives, our world, and the universe around us. These luminous, entertaining essays travel both the vastness of the cosmos and the intimacy of the human mind, posing such fascinating questions as how did the universe originate and how will it end, and how can we meld science and compassion to meet the challenges of the coming century? Here, too, is a rare, private glimpse of Sagan's thoughts about love, death, and God as he struggled with fatal disease. Ever forward-looking and vibrant with the sparkle of his unquenchable curiosity, *Billions & Billions* is a testament to one of the great scientific minds of our day. From the Trade Paperback edition.

The Symbolic Species: The Co-evolution of Language and the Brain

Paul Broca, the discoverer of Broca's region, was one of the first scientists to equate a significant piece of behaviour - articulated language - with a piece of neural tissue. This text creates a coherent, novel picture of the state of contemporary knowledge on the structure and function of the region.

Other Worlds

Presents a series of stories about men and women who, representing both medical and literary oddities, raise fundamental questions about the nature of reality

Scientists Confront Velikovsky

An astonishing new scientific discovery called neuroplasticity is overthrowing the centuries-old notion that the adult human brain is fixed and unchanging. It is, instead, able to change its own structure and function, even into old age. Psychiatrist and researcher Norman Doidge, M.D., travelled around the United States to meet the brilliant scientists championing neuroplasticity, and the people whose lives they've transformed — people whose mental limitations or brain damage were previously seen as unalterable, and whose conditions had long been dismissed as hopeless. We see a woman born with half a brain that rewired itself to work as a whole; a woman labeled retarded who cured her deficits with brain exercises and now cures those of others; blind people who learn to see; learning disorders cured; IQs raised; ageing brains rejuvenated; stroke patients recovering their faculties; children with cerebral palsy learning to move more gracefully; entrenched depression and anxiety disappearing; and lifelong character traits changed. Doidge takes us onto terrain that might seem fantastic. We learn that our thoughts can switch our genes on and off, altering our brain anatomy. We learn how people of average intelligence can, with brain exercises, improve their cognition and perception, develop muscle strength, or learn to play a musical instrument — simply by imagining doing so. Using personal stories from the heart of this neuroplasticity revolution, Dr Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

For Small Creatures Such as We

Since Descartes famously proclaimed, "I think, therefore I am," science has often overlooked emotions as the source of a person's true being. Even modern neuroscience has tended, until recently, to concentrate on the cognitive aspects of brain function, disregarding emotions. This attitude began to change with the publication of Descartes' Error in 1995. Antonio Damasio—"one of the world's leading neurologists" (The New York Times)—challenged traditional ideas about the connection between emotions and rationality. In this wondrously engaging book, Damasio takes the reader on a journey of scientific discovery through a series of case studies, demonstrating what many of us have long suspected: emotions are not a luxury, they are essential to rational thinking and to normal social behavior.

The Future of the Mind

The Sirius Mystery

Carl Sagan's prophetic vision of the tragic resurgence of fundamentalism and the hope-filled potential of the next great development in human spirituality The late

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great astronomer and astrophysicist describes his personal search to understand the nature of the sacred in the vastness of the cosmos. Exhibiting a breadth of intellect nothing short of astounding, Sagan presents his views on a wide range of topics, including the likelihood of intelligent life on other planets, creationism and so-called intelligent design, and a new concept of science as "informed worship." Originally presented at the centennial celebration of the famous Gifford Lectures in Scotland in 1985 but never published, this book offers a unique encounter with one of the most remarkable minds of the twentieth century.

Communication with Extraterrestrial Intelligence (CETI)

Originally published by Viking Penguin, 2014.

Dragons of Eden

How to rewire your brain to improve virtually every aspect of your life-based on the latest research in neuroscience and psychology on neuroplasticity and evidence-based practices Not long ago, it was thought that the brain you were born with was the brain you would die with, and that the brain cells you had at birth were the most you would ever possess. Your brain was thought to be “hardwired” to function in predetermined ways. It turns out that's not true. Your brain is not hardwired, it's "softwired" by experience. This book shows you how you can rewire parts of the brain to feel more positive about your life, remain calm during stressful times, and improve your social relationships. Written by a leader in the field of Brain-Based Therapy, it teaches you how to activate the parts of your brain that have been underactivated and calm down those areas that have been hyperactivated so that you feel positive about your life and remain calm during stressful times. You will also learn to improve your memory, boost your mood, have better relationships, and get a good night sleep. Reveals how cutting-edge developments in neuroscience, and evidence-based practices can be used to improve your everyday life Other titles by Dr. Arden include: Brain-Based Therapy-Adult, Brain-Based Therapy-Child, Improving Your Memory For Dummies and Heal Your Anxiety Workbook Dr. Arden is a leader in integrating the new developments in neuroscience with psychotherapy and Director of Training in Mental Health for Kaiser Permanente for the Northern California Region Explaining exciting new developments in neuroscience and their applications to daily living, Rewire Your Brain will guide you through the process of changing your brain so you can change your life and be free of self-imposed limitations.

Broca's Brain

The spread of nuclear weapons to unstable third world countries such as Iraq means that despite the dramatic improvement in US/Soviet relations, we are living in a time of unprecedented danger of nuclear war. In 1990, there are still enough nuclear weapons in the world to devastate every city 25 times over.

The Brain That Changes Itself

A collection of interviews and profiles show how Sagan, a lifelong skeptic, refined his views and expressed amazement that Earth encompasses everything about which he cared.

How to Remember Anything

The classic book on the development of human language by the world's leading expert on language and the mind. In this classic, the world's expert on language and mind lucidly explains everything you always wanted to know about language: how it works, how children learn it, how it changes, how the brain computes it, and how it evolved. With deft use of examples of humor and wordplay, Steven Pinker weaves our vast knowledge of language into a compelling story: language is a human instinct, wired into our brains by evolution. The Language Instinct received the William James Book Prize from the American Psychological Association and the Public Interest Award from the Linguistics Society of America. This edition includes an update on advances in the science of language since The Language Instinct was first published.

The Varieties of Scientific Experience

Broca's Region

The Female Brain

Part memoir, part guidebook, and part social history, *For Small Creatures Such as We* is the first book from the daughter of Carl Sagan and Ann Druyan--a luminous exploration of Earth's marvels that require no faith in order to be believed. "What is the meaning of life? Sagan finds its meaning everywhere--with her family, around the world, and especially among the stars of the cosmos. Read her work; you'll have a deeper appreciation for your every step, every bite, and every breath." --Bill Nye
Sasha Sagan was raised by secular parents, the astronomer Carl Sagan and the writer and producer Ann Druyan. They taught her that the natural world and vast cosmos are full of profound beauty, that science reveals truths more wondrous than any myth or fable. When Sagan herself became a mother, she began her own hunt for the natural phenomena behind our most treasured occasions--from births to deaths, holidays to weddings, anniversaries, and more--growing these roots into a new set of rituals for her young daughter that honor the joy and significance of each experience without relying on religious framework. As Sagan shares these rituals, *For Small Creatures Such as We* becomes a moving tribute to a father, a newborn daughter, a marriage, and the natural world--a celebration of life itself, and the power of our families and beliefs to bring us together.

The Demon-Haunted World

State-of-the-art research on brain asymmetry, explained from molecular to clinical levels. Hemispheric asymmetry is one of the basic aspects of perception and cognitive processing. The different functions of the left and right hemispheres of the brain have been studied with renewed interest in recent years, as scholars explore applications to new areas, new measuring techniques, and new theoretical approaches. This volume provides a 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. In chapters that report on the field

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at levels from the molecular to the clinical, leading researchers address such topics as the evolution and genetics of brain asymmetry; animal models; findings from structural and functional neuroimaging techniques and research; sex differences and hormonal effects; sleep asymmetry; cognitive asymmetry in visual and auditory perception; and auditory laterality and speech perception, memory, and asymmetry in the context of developmental, neurological, and psychiatric disorders. Contributors Katrin Amunts, Ulrike Bayer, Alfredo Brancucci, Vince D. Calhoun, Maria Casagrande, Marco Catani, Michael C. Corballis, Patricia E. Cowell, Timothy J. Crow, Tom Eichele, Stephanie Forkel, Patrick J. Gannon, Isabelle George, Onur Güntürkün, Heikki Hämmäläinen, Markus Hausmann, Joseph B. Hellige, Kenneth Hugdahl, Masud Husain, Grégoria Kalpouzos, Bruno Laeng, Martina Manns, Chikashi Michimata, Deborah W. Moncrieff, Lars Nyberg, Godfrey Pearlson, Stefan Pollmann, Victoria Singh-Curry, Iris E.C. Sommer, Tao Sun, Nathan Swanson, Fiia Takio, Michel Thiebaut de Schotten, René Westerhausen

Minds behind the Brain : A History of the Pioneers and Their Discoveries

“ A history of the human brain from the big bang, fifteen billion years ago, to the day before yesterday . . . It's a delight. ” —The New York Times Dr. Carl Sagan takes us on a great reading adventure, offering his vivid and startling insight into the brain of man and beast, the origin of human intelligence, the function of our most haunting legends—and their amazing links to recent discoveries. “ How can I persuade every intelligent person to read this important and elegant book? . . . He talks about all kinds of things: the why of the pain of human childbirth . . . the reason for sleeping and dreaming . . . chimpanzees taught to communicate in deaf and dumb language . . . the definition of death . . . cloning . . . computers . . . intelligent life on other planets. . . Fascinating . . . delightful. ” —The Boston Globe “ In some lost Eden where dragons ruled, the foundations of our intelligence were laid. . . Carl Sagan takes us on a guided tour of that lost land. . . Fascinating . . . entertaining . . . masterful. ” —St. Louis Post-Dispatch

Billions & Billions

The brain There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. *Discovering the Brain* is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. *Discovering the Brain* is a "field guide" to the brain--an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the many discoveries that are sure to be

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announced throughout the "Decade of the Brain."

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