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What is memory and where in the brain is it stored? How is memory storage accomplished? Two scientists responsible for some of the fundamental research in the field answer these key questions in *Memory: From Mind to Molecules*, the first book for a general readership to offer an up-to-date, comprehensive overview of memory from molecules and cells to brain systems and cognition.

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questions in *Memory*, the first book for a general readership to offer an up-to-date, comprehensive overview of memory from molecules and cells to brain systems and cognition.

An updated version of the book that won the Science Book Prize in 1993, with new research on memory that has opened the doors to a potential new treatment for Alzheimer ' s Disease -- undreamed of a decade ago.

Combining a richly detailed account of scientists at work with a highly readable explanation of cutting-edge neuroscience, this book offers fascinating new insights on the cellular mechanisms of memory and learning.

Explains the science behind the brain's opiate receptors and other evidence of the intimate connections between mind and body, and their meaning for the future of Western medicine

“ A stunning book. ” —Oliver Sacks *Memory* binds our mental life together. We are who we are in large part because of what we learn and remember. But how does the brain create memories? Nobel Prize winner Eric R. Kandel intertwines the intellectual history of the powerful new science of the mind—a combination of cognitive psychology, neuroscience, and molecular biology—with his own personal quest to understand memory. A deft mixture of memoir and history, modern biology and behavior, *In Search of Memory* brings readers from Kandel's childhood in Nazi-occupied Vienna to the forefront of one of the great scientific endeavors of the twentieth century: the search for the biological basis of memory.

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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



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understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

Discusses the enormous scientific and medical contributions that have come from the field of virology.

A Nobel Prize-winning neuroscientist's probing investigation of what brain disorders can tell us about human nature Eric R. Kandel, the winner of the Nobel Prize in Physiology or Medicine for his foundational research into memory storage in the brain, is one of the pioneers of modern brain science. His work continues to shape our understanding of how learning and memory work and to break down age-old barriers between the sciences and the arts. In his seminal new book, *The Disordered Mind*, Kandel draws on a lifetime of pathbreaking research and the work of many other leading neuroscientists to take us on an unusual tour of the brain. He confronts one of the most difficult questions we face: How does our mind, our individual sense of self, emerge from the physical matter of the brain? The brain's 86 billion neurons communicate with one another through very precise connections. But sometimes those connections are disrupted. The brain processes that give rise to our mind can become disordered, resulting in diseases such as autism, depression, schizophrenia, Parkinson's, addiction, and post-traumatic stress disorder. While these disruptions bring great suffering, they can also reveal the mysteries of how the brain produces our most fundamental experiences and capabilities—the very nature of what it means to be human. Studies of autism illuminate the neurological foundations of our social instincts; research into

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

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

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