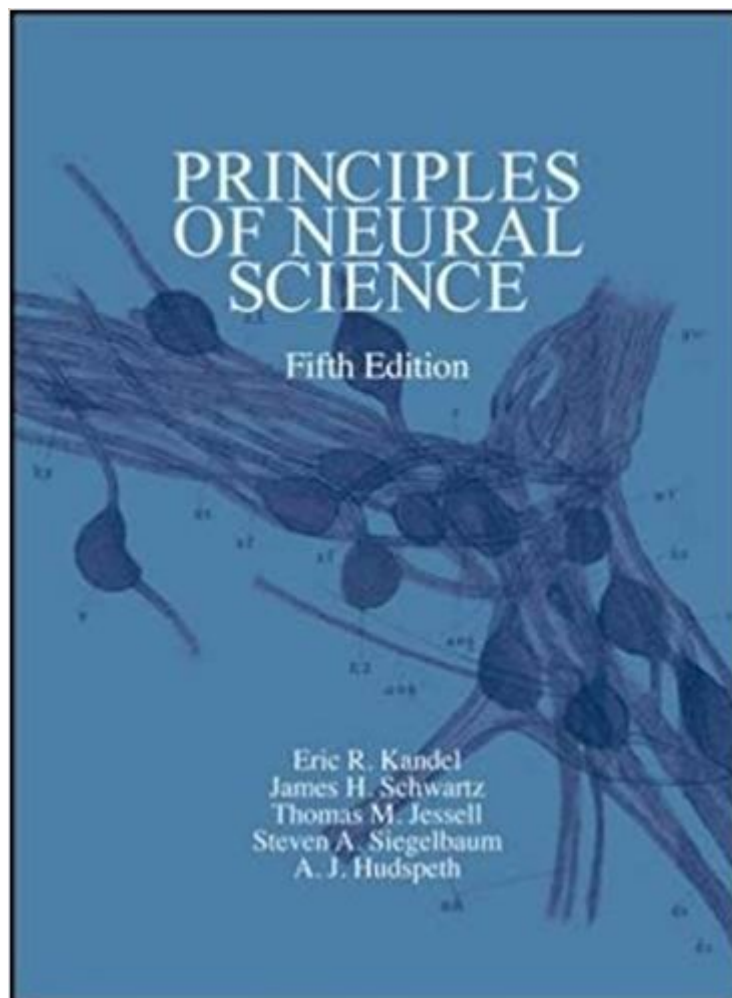


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Principles Of Neural Science, Fifth Edition (Principles Of Neural Science (Kandel))



Synopsis

Now updated: the definitive neuroscience resource from Eric R. Kandel, MD (winner of the Nobel Prize in 2000); James H. Schwartz, MD, PhD; Thomas M. Jessell, PhD; Steven A. Siegelbaum, PhD; and A. J. Hudspeth, PhD

Doody's Core Title for 2017! 900 full-color illustrations

Deciphering the link between the human brain and behavior has always been one of the most intriguing and often challenging aspects of scientific endeavor. The sequencing of the human genome, and advances in molecular biology, have illuminated the pathogenesis of many neurological diseases and have propelled our knowledge of how the brain controls behavior. To grasp the wider implications of these developments and gain a fundamental understanding of this dynamic, fast-moving field, *Principles of Neuroscience* stands alone as the most authoritative and indispensable resource of its kind. In this classic text, prominent researchers in the field expertly survey the entire spectrum of neural science, giving an up-to-date, unparalleled view of the discipline for anyone who studies brain and mind. Here, in one remarkable volume, is the current state of neural science knowledge ranging from molecules and cells, to anatomic structures and systems, to the senses and cognitive functions—all supported by more than 900 precise, full-color illustrations. In addition to clarifying complex topics, the book also benefits from a cohesive organization, beginning with an insightful overview of the interrelationships between the brain, nervous system, genes, and behavior. *Principles of Neural Science* then proceeds with an in-depth examination of the molecular and cellular biology of nerve cells, synaptic transmission, and the neural basis of cognition. The remaining sections illuminate how cells, molecules, and systems give us sight, hearing, touch, movement, thought, learning, memories, and emotions. The new fifth edition of *Principles of Neural Science* is thoroughly updated to reflect the tremendous amount of research, and the very latest clinical perspectives, that have significantly transformed the field within the last decade. Ultimately, *Principles of Neural Science* affirms that all behavior is an expression of neural activity, and that the future of clinical neurology and psychiatry hinges on the progress of neural science. Far exceeding the scope and scholarship of similar texts, this unmatched guide offers a commanding, scientifically rigorous perspective on the molecular mechanisms of neural function and disease—one that you'll continually rely on to advance your comprehension of brain, mind, and behavior.

FEATURES The cornerstone reference in the field of neuroscience that explains how the nerves, brain, and mind function. Clear emphasis on how behavior can be examined through the electrical activity of both individual neurons and systems of nerve cells. Current focus on molecular biology as a tool for probing the pathogenesis of many neurological diseases, including muscular dystrophy, Huntington disease, and certain forms

of Alzheimer's disease More than 900 engaging full-color illustrations—including line drawings, radiographs, micrographs, and medical photographs clarify often-complex neuroscience concepts Outstanding section on the development and emergence of behavior, including important coverage of brain damage repair, the sexual differentiation of the nervous system, and the aging brain NEW! More detailed discussions of cognitive and behavioral functions, and an expanded review of cognitive processes NEW! A focus on the increasing importance of computational neural science, which enhances our ability to record the brain's electrical activity and study cognitive processes more directly NEW! Chapter-opening Key Concepts provide a convenient, study-enhancing introduction to the material covered in each chapter Selected Readings and full reference citations at the close of each chapter facilitate further study and research Helpful appendices highlight basic circuit theory; the neurological examination of the patient; circulation of the brain; the blood-brain barrier, choroid plexus, and cerebrospinal fluid; neural networks; and theoretical approaches to neuroscience

Book Information

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improving the lives, careers, and interests of readers worldwide

This is a "from the ground up" text book that is well written and actually straightforward. Some of the research details are outdated, such as the genetics information, but even that is well rounded in what was understood ten years ago. The authors have put together a very clearly written and clean presentation of what is a very difficult subject matter. This is not for the faint of determination or for the lay person without any biology or anatomy background, however. The subjects range throughout history of brain science to functional assessments of neurological and psychological disorders. Anatomy of the nervous system is detailed and thorough as is the physiology. The chapters are well defined in scope and organized well enough to allow either a straight through read or a more pick and choose section to section based on need for detailed info or interest. Outstanding overall and I'll be looking forward to the next edition as well!

I have a degree in chemistry. I found it to be an important addition to my library. Book covers the basic chemistry such as amines and other biochemistry in the brain. From my perspective, the biology is understandable and touches upon aspects of normal functioning and abnormal aspects such as mental illness. I consider this book as valued addition and look forward to years of use.

Much more than a standard book on neuroscience, a tour the force from the basics to advanced concepts on the subject, the most thoroughly and up to date guide in the field, by one of the brightest minds of our time. Eric Kandel has brought forth the science of the mind to a new era. Indispensable to read with his *In Search of Memory* as a Companion.

Not your typical textbook, be sure to try a sample of this item before you buy because many of the authors within use Neuroscience jargon as if speaking to a fellow researcher when describing their specialty areas. Also, I read these kinds of books for fun, but some Instructors may find that it can serve as a good supplement to many biology, bioethics, neural science, neuroscience, and psychology courses BUT lacks the organization and fluidity one should expect from a textbook.

Written by Nobel Prize winning professor from Columbia University. Elaborate introduction to neuroscience & easy to understand. This is by far the best book textbook on general Neuroscience out there.

Great quality, best price I could find for a NEW book.

EXTREMELY dense, but helped so much in my classes. Even if you're not a neuro person, or the book isn't required, I would recommend buying it. It's going to be an extremely valuable resource for me and considering it's size it's very cheap.

As a doctor, I find this book an excellent resource for the inner workings of the nervous system. Wonderful for medical and chiropractic students. I also enjoyed the timeliness on the delivery from the seller.

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