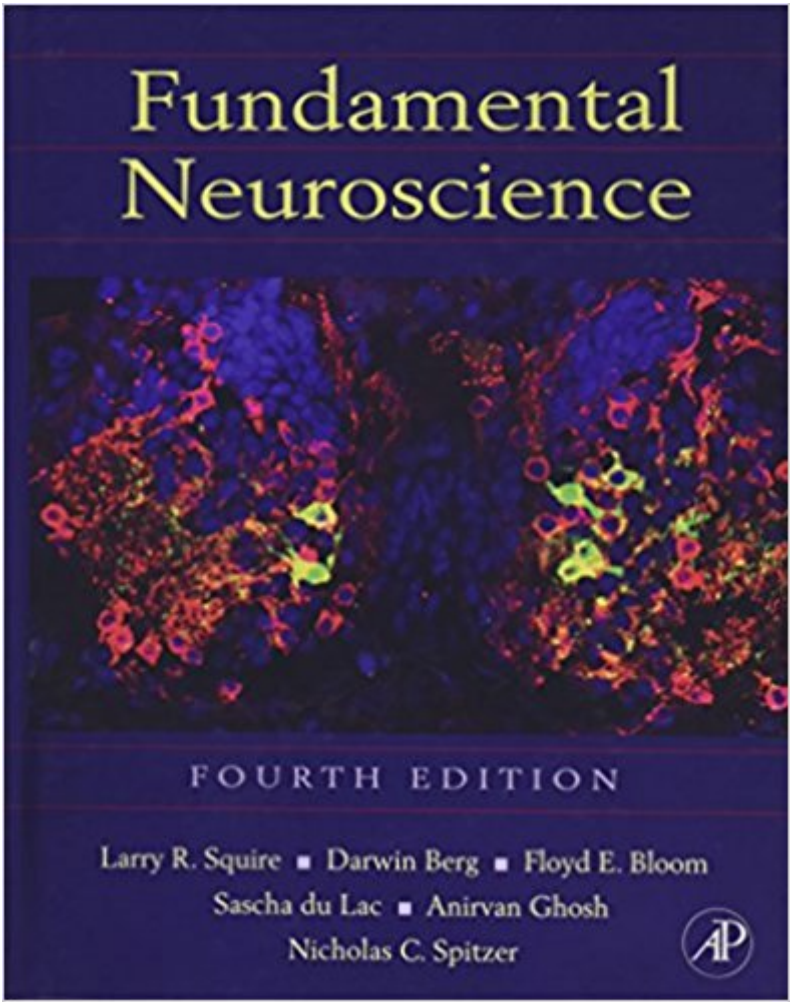
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Fundamental Neuroscience, Fourth Edition (Squire,Fundamental Neuroscience)



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Synopsis

The fourth edition of Fundamental Neuroscience reinvents itself as an engrossing and comprehensive presentation of the discipline of neuroscience, from molecules to cognition. Thorough but succinct, and lavishly illustrated, the book builds from an introductory section that includes fundamental neuroanatomy and goes on to cover cellular and molecular neuroscience, development, sensory systems, motor systems, regulatory systems, and behavioral and cognitive neuroscience. The book has been retooled to better serve its audience in the neuroscience and medical communities. The chapters include more than 100 boxes describing clinical conditions, techniques, and other special topics. Each chapter went through a thorough review process, giving the book an evenness of tone. The chapters are authored by outstanding working scientists who are experts on the topics they cover. Selected for inclusion in Doody's Core Titles 2013, an essential collection development tool for health sciences libraries30% new material including new chapters on dendritic development and spine morphogenesis, chemical senses, cerebellum, eye movements, circadian timing, sleep and dreaming, and consciousnessAccompanying website for students and instructorsAdditional text boxes describing key experiments, disorders, methods, and conceptsMore than 650 four-color illustrations, micrographs, and neuroimages Multiple model system coverage beyond rats, mice, and monkeysExtensively expanded index for easier referencing

Book Information

Series: Squire,Fundamental Neuroscience
Hardcover: 1152 pages
Publisher: Academic Press; 4 edition (November 20, 2012)
Language: English
ISBN-10: 9780123858702
ISBN-13: 978-0123858702
ASIN: 0123858704
Product Dimensions: 1.5 x 8.8 x 11 inches
Shipping Weight: 5.6 pounds (View shipping rates and policies)
Average Customer Review: 4.4 out of 5 stars 10 customer reviews
Best Sellers Rank: #103,585 in Books (See Top 100 in Books) #105 inÃ Â Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Neurology #107 inÃ Â Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Neuroscience #117 inÃ Â Books > Textbooks > Social Sciences > Psychology > Neuropsychology

Customer Reviews

"Here in the fourth edition of this textbook, editors Squire, Berg, Bloom, du Lac, Ghosh, and Spitzer, all working scientists with backgrounds in various specialties in neuroscience, present extensive new material with all chapters updated and rewritten. The book is organized into seven sections with numerous chapters in each encompassing a comprehensive view of 21st century neuroscienceÃ¢â ¬Â|"--Reference & Research Book News, December 2013

The third edition of Fundamental Neuroscience reinvents itself as an engrossing and comprehensive presentation of the discipline of neuroscience, from molecules to cognition. Thorough but succinct, and lavishly illustrated, the book builds from an introductory section that includes fundamental neuroanatomy and goes on to cover cellular and molecular neuroscience, development, sensory systems, motor systems, regulatory systems, and closes with a section on behavioral and cognitive neuroscience. More concise and manageable than the previous edition, this book has been retooled to better serve its audience in the neuroscience and medical communities.The chapters include boxes describing clinical conditions associated with each topic, rather than separately covering clinical issues outside the subject matter in which they arise. Each chapter went through a thorough review process, giving the book an evenness of tone. The chapters are authored by outstanding working scientists who are experts on the topics they cover.Artwork available free on websitehttp://books.elsevier.com/companions/9780123740199Test bank and more available for instructors by registering athttp://elsevierdirect.com/9780123740199

With the plethora of neuroscience textbooks on the market -- many in their second, third, or more editions -- and not having read any of these textbooks other than Fundamental Neuroscience (4th ed.), I’m not in a position to state with any certainty that this text is superior or inferior to these other textbooks, nor can I declare the appropriate audience for this textbook.It is a challenge to read. I cannot imagine it being used at the undergraduate level because one needs a solid foundation in biochemistry, molecular and cell biology, and human anatomy and physiology in order to fully appreciate the riches this book has to offer. It covers in exquisitely comprehensive detail the molecular and cellular foundations of neuroscience. Developmental neuroscience and motor systems are similarly well covered. The book begins to falter a little on sensory systems and regulatory systems, and the quality declines precipitously with the cognitive neuroscience section.The section I was most looking forward to, the section on cognitive neuroscience, was in my opinion the weakest in the book. This section did have some interesting things to say about

perception as opposed to mere vision (vision will tell us we have an orange blob in front of us; perception tells us if it is a fruit or a basketball) as well as attention and memory, although I thought the two chapters on memory could have been strengthened considerably because a discussion of the various types of memory was absent. Prospective memory was not mentioned at all. The chapter on the prefrontal cortex and executive functioning was anemic, and the closing chapter on consciousness, a mere ten pages in an eleven hundred page book, was a throwaway, asking far more questions than it attempted to answer.The various chapters were written by subject matter experts, and the text as a whole focuses on neuroscience at the cellular and molecular level, even in the chapters on memory, thus tying the book together into a coherent whole despite the many cooks adding to the broth. Notwithstanding the occasional eye-glazing prose, it is a clear and well-written text. The book is well-seasoned with diagrams, charts and other visual materials that amplify the text. Because I was an autodidact studying this book, I found some online tutorials very helpful as a supplement to my studies, especially the materials made freely available on the World-Wide Web by the University of Texas at Houston.If you're looking for an advanced, intensive text on neuroscience, then I can recommend this one, with the caveats about the short shrift given to the prefrontal cortex and consciousness mentioned above. I'm sure its primary use is as a textbook accompanying a graduate level or medical school course in neuroscience, but as long as you have the needed background in cellular biology, biochemistry, and physiology, then this definitely is a book worth considering. I'm glad I'm studying this material on my own, at my own pace, and using supplemental materials found on the web. To try to master the material covered in this book over the span of an academic year seems overwhelming; I'm definitely glad I don't have to face any exams! However, I was very satisfied with the degree this text advanced my knowledge on neuroscience so that I may delve deeper into the subject.

The edition is the best one yet.

Not amazingly written but stays up to date with the primary literature so perfect for the grad student because it would be assumed to not be the first time in the topic. For the undergrad, I would recommend sinauers neuroscience textbook. Great for introduction to the fiend, whereas this textbook is perfect for the in depth needs of a grad student.

Great product.

Good book, low-quality pictures, some even illegible. Don’t recommend it from here. No customer service on that matter either.

Faculty member pleased with this edition.

Photo read the book the other night found out another possible cause of peripheral neuropathyIt was a quick read on kindle

Very thorough and complete. It focuses on the cellular and molecular background to the basics of neuroscience. Definitely useful for graduate students.

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