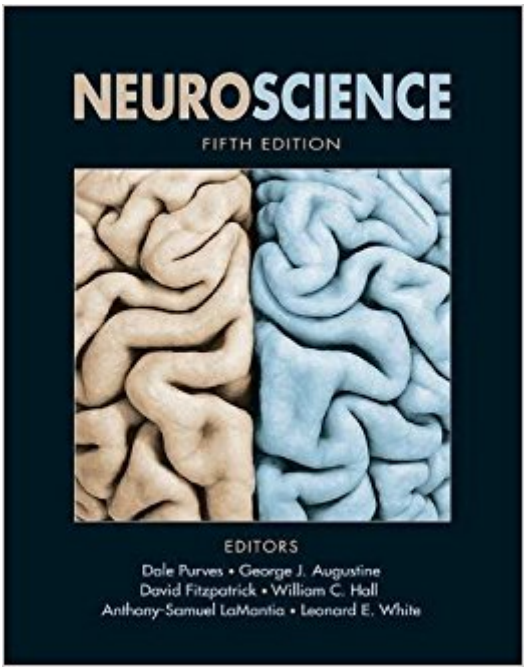
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Neuroscience



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Synopsis

Neuroscience, Fifth Edition, is a comprehensive textbook created primarily for medical, premedical, and undergraduate students. In a single concise and approachable volume, the text guides students through the challenges and excitement of this rapidly changing field. The book's length and accessibility of its writing are a successful combination that has proven to work equally well for medical students and in undergraduate neuroscience courses. Being both comprehensive and authoritative, the book is also appropriate for graduate and professional use.Key features of the Fifth Edition: *In addition to new figures, all of the art has been modified with a new color palette and digital enhancements. *All chapters have been updated to reflect current research; new literature citations have been added, as well as new experimental content. Substantial revisions have been made to: Chapter 4, Ion Channels and Transporters, Chapter 6, Neurotransmitters and Their Receptors, and Chapter 8, Synaptic Plasticity; all chapters in Unit IV, The Changing Brain; and all chapters in Unit V, Complex Brain Functions. *Sylvius included with every book *An appendix presenting an illustrated narrative of human neuroanatomy plus annotated atlas plates presenting brain sections from SylviusRESOURCESFor StudentsCompanion WebsiteThe Neuroscience companion website features review and study tools to help students master the material presented in the neuroscience course. Access to the site is free of charge and requires no access code. The site includes: *Chapter Summaries: Concise overviews of the important topics covered in each chapter. *Animations: Detailed animations depict many of the key topics presented in the textbook. Topics such as synaptic transmission, resting membrane potential, information processing in the eye, the stretch reflex, and many others are presented in a dynamic manner that helps students visualize and better understand many of the complex processes of neuroscience. *Online Quizzes: Available at the instructor's discretion (see For Instructors/Online Quizzing below) *Flashcards and Key Terms: Flashcard activities help students master the extensive vocabulary of neuroscience. Each chapter's set of flashcards includes all the key terms introduced in that chapter.Sylvius: An Interactive Atlas and Visual Glossary of Human NeuroanatomyS. Mark Williams, Leonard E. White, and Andrew C. MaceSylvius provides a unique computer-based learning environment for exploring and understanding the structure of the human central nervous system. Sylvius features fully annotated surface views of the human brain, as well as interactive tools for dissecting the central nervous system and viewing fully annotated cross-sections of preserved specimens and living subjects imaged by magnetic resonance. Sylvius is more than a conventional atlas; it incorporates a comprehensive, visually rich, searchable database of more than 500 neuroanatomical terms that are concisely defined and visualized in photographs, magnetic resonance images, and illustrations

from Neuroscience.Program Components *Surface Anatomy Atlases (Photographic, Magnetic Resonance Image, Brainstem Model): Provide a visual introduction to the location and names of the major external features and subdivisions of the human brain. *Sectional Anatomy Atlases (Photographic, Magnetic Resonance Image, Brainstem and Spinal Cord): Allow the user to explore the internal organization of the brain. *Pathways: Allows students to follow the flow of information in several important long-tract pathways of the central nervous system. *Visual Glossary: Searchable glossary providing visual representations, concise anatomical and functional definitions, and audio pronunciation of neuroanatomical structures.For InstructorsInstructor's Resource LibraryView samples on the samples page.The Neuroscience Instructor's Resource Library includes a variety of resources to help in developing your course and delivering your lectures. The Library includes: *Textbook Figures and Tables: All the figures and tables from the textbook are provided in JPEG format (both high- and low-resolution), reformatted and relabeled for optimal readability. *PowerPoint Presentations: A PowerPoint presentation that includes all figures and tables is included for each chapter, making it easy to add figures to your own presentations. *Atlas Images: All of the images from the book's Atlas of the Human Central Nervous System (which are from Sylvius) are included in PowerPoint format, for use in lecture. *Animations: All of the animations from the companion website are included for use in lecture and other course-related activities. *Quiz Questions: All of the questions from the companion website's online quizzes are provided in Microsoft Word format. *Review Questions: A set of short-answer review questions is provided for each chapter of the textbook (Microsoft Word format), along with a list of chapter-specific key terms.Online QuizzingAdopting instructors have access to a bank of online quizzes that they can choose to assign or let their students use for self-review purposes. Instructors can use the quizzes as is, or they can create their own quizzes using any combination of publisher-provided questions and their own questions. The online grade book stores quiz results, which can be downloaded for use in grade book programs. (Student access to the quizzes requires instructor registration.)

Book Information

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Customer Reviews

Neuroscience is a remarkably well-organized and well-written text. It is highly accessible and easy to follow, which is impressive given the amount of detail and depth it provides. Each step of the way, explanations of complex concepts are accompanied by easy-to-follow graphics that on the one hand enhance deep understanding, and, on the other, make it easy to even just browse or skim. The book does an excellent job of bridging between molecular and molar levels of analysis, between basic and clinical science, and between the big picture and discrete detail. In other words, it keeps you grounded and allows you to understand how basic processes relate to cognition, emotion, and behavior, as well as to various forms of dysfunction. ... I am definitely keeping a copy of Neuroscience on my desk, along with Lezak et al., Strauss et al., and all the other classics. --Yana Suchy, JINSAs is the tradition with this book, current neuroanatomical and neurophysiological concepts are explained in detail and fully illustrated. The addition of current concepts on neuroplasticity and behavior, as well as the web resources, significantly enrich this edition. This is a worthy and affordable book for neuroscience students. ... An excellent contribution to the study of neuroscience, deserving of its place in neurology, neurosurgery, and neurosciences libraries. --Celso Agner, Doody’s Book Review

Dale Purves is Director of the Neuroscience and Behavioural Disorders program at Duke’s Graduate Medical School and Executive Director of the Neuroscience Research Partnership at A*STAR (both located in Singapore).George J. Augustine is Professor of Neurobiology at the Duke University School of Medicine.David Fitzpatrick is Chief Executive Officer and Scientific Director of the Max Planck Florida Institute for Neuroscience.William C. Hall is Professor of Neurobiology at the Duke University School of Medicine.Anthony-Samuel LaMantia is Professor of Pharmacology & Physiology at The George Washington University and Director of the GW Institute for Neuroscience.Leonard E. White is Associate Professor in the Department of Neurobiology at the

Duke University School of Medicine.

This was the text for a Medical Neuroscience class that was taught by Dr. Len White of Duke University (via Coursera). I found this text to be a very useful adjunct to the course and I can highly recommend it. Of greatest utility for me was the many illustrations as I am a visual learner. Also, there is a related adjunct website with a number of useful illustrations and the book came with the Sylvius neuroanatomy software.

The shipping process was a bit of a hassle, as I had to return the first book I received because it was partially damaged on the spine and front cover. Second book that came in was in better condition. Although I recently started reading the book, it is a very informative text so far, repeating important topics from section to section of each chapter as well as providing some great illustrations that help understand structures and topics better. I had read in previous reviews that there are a lot of smaller errors in the text- I just started reading it, so I didn't find any yet. If you buy the book new, it also comes with a few informative websites with a glossary, few animations per chapter, and other material that makes the purchase seem like a bit of a bargain. After all, how often would you find an access card + a new textbook for under $100?UPDATE 11/4/15Okay, so this book started to get a bit frustrating as I started going through the chapters for class. For some reason, they seem to explain material in such a verbose way I found myself holding a dictionary near me and looking up those unnecessarily complex words, making learning those concepts longer and more challenging. Other than that, I think the application boxes they provide in each chapter are interesting and well connected to the introduced material

Having 0 background in Neuroscience, this book was an amazing companion during all 4 of my Neuro based classes for PT school. I loved the way it was organized. I can easily refer back to chapters and get the information I need without scouring the pages. This is extremely helpful for health professionals helping persons with Stroke, MS, Parkinsons and other Neuro disorders.

Clearly presented detailed information that I'd used while taking Medical Neuroscience from Dr. Leonard White of Duke. It was perfect for the class, and continues to be a valuable resource that I can frequently refer to. Extremely well written in an easily digested fashion.

Book is EXTREMELY dense. Rented this for a class, but am now deciding to keep it because it

covers such a wealth of information concerning all the diverse concepts within neuroscience. I can honestly say that all of my neuroscience classes have been covered within the chapters of this book. The diagrams and figures as well as clinical applications are also very helpful. Definite recommend for anyone interested in neuroscience, although the material is definitely graduate level.

A well written introduction to neuroscience. Anyone with some knowledge of physiology should have no problem reading this book. It is true to its title. Every chapter in the text is related to the central nervous system with the exception of a chapter on the neuromuscular unit. The figures are helpful and easy to follow. While perhaps not as complete as Fundamental Neuroscience by Squire it is considerably easier to read. There is also a companion website with neuroanatomy figures and a nice glossary.

Overall, a good introduction to neuroscience that covers molecular mechanisms to systems integration. One small grievance that I have is that the authors choose to use data from actual experiments, and some of the figures have outliers and information that might throw off a student and detract from the big picture.

We are currently using Neuroscience 5th.edition as our textbook for our Neuroscience course with is part of the Biopsychology honors track at William Paterson University. The book is well written and clear on explaining difficult material. The tables and pictures are also very relevant and coinside nicely with the written text. The one thing I don’t like is that the book cites future chapters for which we have not covered up to that point. Overall it is a good text. for difficult subject material.

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