

Neurons In Action 2: Tutorials and Simulations using NEURON

By John W. Moore, Anne E. Stuart

Download now

Read Online 

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart

Neurons in Action 2 is the second version of a unique CD-ROM-based learning tool that combines hyperlinked text with NEURON simulations of laboratory experiments in neurophysiology. Version 2 features nine new tutorials introducing new channel types, single-channel simulations, and a redesigned interface. Neurons in Action's moving graphs provide insight into nerve function that is simply not possible with conventional, static text and figure presentations. Students discover how changing parameters such as neuronal geometry, ion concentrations, ion channel densities, and degree of myelination affects the generation of action potentials, synaptic potentials, and the spread or propagation of voltages within a neuron. For instructors, minimovies of NEURON simulations are provided for use in lectures.

 [Download Neurons In Action 2: Tutorials and Simulations using NEURON Version 2.pdf](#)

 [Read Online Neurons In Action 2: Tutorials and Simulations using NEURON Version 2.pdf](#)

Neurons In Action 2: Tutorials and Simulations using NEURON


By John W. Moore, Anne E. Stuart

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart

Neurons in Action 2 is the second version of a unique CD-ROM-based learning tool that combines hyperlinked text with NEURON simulations of laboratory experiments in neurophysiology. Version 2 features nine new tutorials introducing new channel types, single-channel simulations, and a redesigned interface. Neurons in Action's moving graphs provide insight into nerve function that is simply not possible with conventional, static text and figure presentations. Students discover how changing parameters such as neuronal geometry, ion concentrations, ion channel densities, and degree of myelination affects the generation of action potentials, synaptic potentials, and the spread or propagation of voltages within a neuron. For instructors, minimovies of NEURON simulations are provided for use in lectures.

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart
Bibliography

- Sales Rank: #828093 in Books
- Brand: Brand: Sinauer Associates
- Published on: 2007-04-30
- Platforms: Windows XP, Windows Vista, Windows 7
- Format: Unabridged
- Original language: English
- Subtitled in: English
- Number of items: 1
- Dimensions: .36" h x 8.68" w x 10.92" l, .94 pounds
- Binding: Spiral-bound
- 200 pages

 [Download Neurons In Action 2: Tutorials and Simulations using NEURON.pdf](#)

 [Read Online Neurons In Action 2: Tutorials and Simulations using NEURON.pdf](#)

Download and Read Free Online Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart

Editorial Review

Review

In this carefully designed book, John Moore and Ann Stuart demystify the basics of nerve function through a series of logical and well-written text-based tutorials with accompanying computer simulations... The computer-based format is ideal for professors and teaching assistants to use in the classroom. The inclusion of classic experimental papers on the CD also makes the experience somewhat of a history lesson as well... The entire simulation environment is contained on the CD, can be easily installed locally on a PC or Mac, and runs quickly using Mozilla Firefox... Overall, Moore and Stuart certainly have created a highly recommendable method for learning and teaching neurophysiology. Readers can now, from the comfort of their own homes, finally vanquish those former physiology demons in a fun and interactive manner and learn a bit of history, too. --Arjun V. Masurkar, Yale Journal of Biology and Medicine

About the Author

JOHN W. MOORE, Duke University Medical Center, USA. ANN E. STUART, University of North Carolina, USA.

Users Review

From reader reviews:

Edith Stewart:

The book Neurons In Action 2: Tutorials and Simulations using NEURON make you feel enjoy for your spare time. You should use to make your capable a lot more increase. Book can to become your best friend when you getting pressure or having big problem with the subject. If you can make reading a book Neurons In Action 2: Tutorials and Simulations using NEURON to be your habit, you can get far more advantages, like add your current capable, increase your knowledge about some or all subjects. You can know everything if you like wide open and read a publication Neurons In Action 2: Tutorials and Simulations using NEURON. Kinds of book are several. It means that, science publication or encyclopedia or other people. So , how do you think about this guide?

Meredith Butler:

The book Neurons In Action 2: Tutorials and Simulations using NEURON can give more knowledge and information about everything you want. Why must we leave a very important thing like a book Neurons In Action 2: Tutorials and Simulations using NEURON? Wide variety you have a different opinion about publication. But one aim that book can give many info for us. It is absolutely proper. Right now, try to closer along with your book. Knowledge or data that you take for that, you can give for each other; you can share all of these. Book Neurons In Action 2: Tutorials and Simulations using NEURON has simple shape however, you know: it has great and large function for you. You can appearance the enormous world by open and read a publication. So it is very wonderful.

Linda Griffin:

In this era globalization it is important to someone to obtain information. The information will make professionals understand the condition of the world. The healthiness of the world makes the information quicker to share. You can find a lot of sources to get information example: internet, classifieds, book, and soon. You can view that now, a lot of publisher in which print many kinds of book. The book that recommended for you is Neurons In Action 2: Tutorials and Simulations using NEURON this publication consist a lot of the information with the condition of this world now. This book was represented how can the world has grown up. The words styles that writer use for explain it is easy to understand. The actual writer made some investigation when he makes this book. That is why this book suitable all of you.

Amelia Page:

Is it you who having spare time and then spend it whole day by simply watching television programs or just lying down on the bed? Do you need something new? This Neurons In Action 2: Tutorials and Simulations using NEURON can be the respond to, oh how comes? A book you know. You are consequently out of date, spending your extra time by reading in this new era is common not a geek activity. So what these textbooks have than the others?

Download and Read Online Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart #R9BOHXN5EV6

Read Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart for online ebook

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart books to read online.

Online Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart ebook PDF download

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart Doc

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart Mobipocket

Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart EPub

R9BOHXN5EV6: Neurons In Action 2: Tutorials and Simulations using NEURON By John W. Moore, Anne E. Stuart