

The Neuron Book

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The Neuron Book

The NEURON Book covers material that ranges from the inner workings of this program, to practical considerations involved in specifying the anatomical and biophysical properties that are to be represented in models. It uses a problem-solving approach, with many working examples that readers can try for themselves.

The NEURON Book by Nicholas T. Carnevale

Product details Hardcover: 480 pages Publisher: Cambridge University Press; 1 edition (February 6, 2006) Language: English ISBN-10: 9780521843218 ISBN-13: 978-0521843218 ASIN: 0521843219 Product Dimensions: 6.1 x 1.1 x 9.2 inches Shipping Weight: 2 pounds (View shipping rates and policies) Customer ...

The NEURON Book: 9780521843218: Medicine & Health Science ...

Assuming no previous knowledge of computer programming or numerical methods, The NEURON Book provides practical advice on how to get the most out of the NEURON software program. Although written primarily for neuroscientists, teachers and students, readers with a background in the physical sciences or mathematics and some knowledge about brain cells and circuits, will also find it helpful.

The NEURON Book by Nicholas T. Carnevale, Michael L. Hines ...

This book will not help you with neuron. There is a collage of various papers about NEURON published throughout the years, a description of the GUI, a description of its numerical integration algorithm (who cares), a short badly written guide about the MODL language. It's missing everything that is commonly addressed when using NEURON: best ...

The NEURON Book: 9780521115636: Medicine & Health Science ...

The NEURON Book by Nicholas T. Carnevale. The authoritative reference on NEURON, the simulation environment for modeling biological neurons and neural networks that enjoys wide use in the experimental and computational neuroscience communities. This book shows how to use NEURON to construct and apply empirically based models.

The NEURON Book by Carnevale, Nicholas T. (ebook)

Irwin B. Levitan and Leonard K. Kaczmarek Provides a comprehensive first course in the cell and molecular biology of nerve cells. Covers the properties of the many ion channels that shape the way a single neuron generates varied patterns of electrical activity. Reviews the molecular factors that induce an undifferentiated cell to become a neuron.

The Neuron - Irwin B. Levitan; Leonard K. Kaczmarek ...

June 9, 2003 The NEURON Book The NEURON Book N.T. Carnevale¹ and M.L. Hines² Departments of ¹Psychology and ²Computer Science Yale University, New Haven, CT ted.carnevale@yale.edu michael.hines@yale.edu Who should read this book This book is about how to use the NEURON simulation environment to construct and

The NEURON Book

November 27, 2004 The NEURON Book: Chapter 4 Chapter 4 Essentials of numerical methods for neural modeling NEURON uses many strategies to achieve computational accuracy and efficiency, some of which are detailed elsewhere (Hines 1984). It also draws on several numerical methods libraries for vector (Press et al. 1992) and matrix (Stewart and Leyk 1994)

Chapter 4

November 23, 2004 The NEURON Book: Chapter 11 Chapter 11 Modeling networks NEURON was initially developed to handle models of individual cells or parts of cells, in which complex membrane properties and extended geometry play important roles (Hines 1989; 1993; 1995). However, as the research interests of experimental and

Chapter 11

The NEURON Book covers material that ranges from the inner workings of this program, to practical considerations involved in specifying the anatomical and biophysical properties that are to be...

The NEURON Book - Nicholas T. Carnevale, Michael L. Hines ...

Each mammalian neuron consists of a cell body, dendrites, and an axon. The cell body contains the nucleus and cytoplasm. The axon extends from the cell body and often gives rise to many smaller branches before ending at nerve terminals. Dendrites extend from the neuron cell body and receive messages from other neurons.

The Neuron - BrainFacts

Assuming no previous knowledge of computer programming or numerical methods, The NEURON Book provides practical advice on how to get the most out of the NEURON software program.

The Neuron Book by Nicholas T. Carnevale

The NEURON Book covers material that ranges from the inner workings of this program, to practical considerations involved in specifying the anatomical and biophysical properties that are to be...

The NEURON Book by Nicholas T. Carnevale, Michael L. Hines ...

Book Description : The authoritative reference on NEURON, a software program used by neuroscientists to create computer models used to study the function of biological neurons and neural networks. Written by the creator of the NEURON program, its main purpose is to teach readers how to use NEURON.

9780521115636: The NEURON Book - AbeBooks - Carnevale ...

NEURON is a simulation environment for models of individual neurons and networks of neurons that are closely linked to experimental data. Recommend this book Email your librarian or administrator to recommend adding this book to your organisation's collection.

A tour of the NEURON simulation environment (Chapter 1 ...

Neuron by Casey Henley is licensed under a Creative Commons Attribution Non-Commercial Share-Alike (CC BY-NC-SA) 4.0 International License. Dendrites. Dendrites are processes that branch out in a tree-like fashion from the cell body. They are the main target for incoming signals received from other cells.

The Neuron - Foundations of Neuroscience

We are often asked what neuroscience books we recommend, so we put together a small library of textbooks, neuroanatomy books, and books about various neuroscience topics for you to peruse! If you have brain-related books you'd like us to read, review, and/or add to the collection, feel free to send us an email at knowingneurons@gmail.com!

Brain Books - Knowing Neurons

The NEURON Book is the authoritative reference on NEURON, a software program used by neuroscientists to create models to study the function of biological neurons and neural networks. Written by the creator of the NEURON program, it teaches readers how to use NEURON without assuming any previous computer-programming knowledge.

The NEURON book (Book, 2005) [WorldCat.org]

The NEURON simulation environment. Hines ML(1), Carnevale NT. Author information: (1)Department of Computer Science and Neuroengineering, Yale University, New Haven, CT 06520, USA. The moment-to-moment processing of information by the nervous system involves thepropagation and interaction of electrical and chemical signals that aredistributed in space and time.

The NEURON simulation environment.

"The Neuron" was a fantastic book to read. It served as a perfect mesh between a textbook and a novel. The book was written in plain english so anyone could enjoy it. The concepts discussed ranged from elementary to advanced which provided a nice progression to more complicated things. This book is a must read for anyone interested in neuroscience.

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