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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 - Cambridge Core

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

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the physical sciences or mathematics and some knowledge about brain cells and circuits, will also find it helpful.

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

This book describes the NEURON simulation system, which can be accessed for installation and instructions at the NEURON web site. Simulation implies using the realistic Hodgkin-Huxley neuron. NEURON was initially for individual neurons, but it has now been extended to networks.

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

The NEURON Book: Publication Type: Book; Year of Publication: 2006: Authors: Carnevale, N. T., and Hines M. L. Publisher: Cambridge University Press

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

The emphasis is on the most productive use of NEURON as a means for testing hypotheses that are founded on experimental observations, and for exploring ideas that may lead to the design of new experiments. Therefore the book uses a problem–solving approach, with many working examples that readers can try for themselves.

The NEURON Book

1. The NEURON Book Carnevale, Nicholas T. Published by Cambridge University Press (2009) ISBN 10: 0521115639 ISBN 13:... 2. The NEURON Book (Paperback) Nicholas T. Carnevale, Michael L. Hines Published by CAMBRIDGE UNIVERSITY PRESS, United... 3. The NEURON Book Nicholas Carnevale Published by ...

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This book is about how to use the NEURON simulation environment to construct and apply empirically based models of neurons and neural networks. It is written primarily for neuroscience investigators, teachers, and students, but readers with a background in the physical sciences or mathematics who have some knowledge about brain cells and ...

Preface - The NEURON Book - Cambridge Core

The NEURON Book: Chapter 7 June 7, 2003 helpful for exploratory dissection of the time sequence of events in dynamically complex simulations. Graphs created from the NEURON Main Menu respond appropriately to all of these controls. Init erases unsaved traces from graphs whose x axis shows time, and makes all

Chapter 7

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The NEURON simulation program provides a powerful and flexible environment for implementing such models of individual neurons and small networks of neurons. It is particularly useful when membrane potential is nonuniform and membrane currents are complex. We present the basic ideas that would help informed users make the most efficient use of ...

The NEURON simulation environment

The first part of the book covers the properties of the many ion channels that shape the way a single neuron generates varied patterns of electrical activity, as well as the molecular mechanisms that convert electrical activity into the secretion of neuro

The Neuron: Cell and Molecular Biology by Irwin B. Levitan

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 Carnevale, Nicholas T. (ebook)

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

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MND Association | Fighting motor neurone disease

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