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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.

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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.

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The NEURON Book. Publication Type. Book. Year of Publication. 2006. Authors. Carnevale, N. T., and Hines M. L. Publisher.

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[The Neuron - Irwin B. Levitan; Leonard K. Kaczmarek...](#)

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 - Michael L. Hines](#)

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The third edition of The Neuron provides a comprehensive first course in the cell and molecular biology of nerve cells. 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

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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.

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If the second neuron fires then that will indicate that the network thinks the digit is a \$1\$. And so on. A little more precisely, we number the output neurons from \$0\$ through \$9\$, and figure out which neuron has the highest activation value. If that neuron is, say, neuron number \$6\$, then our network will guess that the input digit was a \$6\$.

[The NEURON Book by Carnevale, Nicholas T. \(ebook\)](#)

The NEURON Book CARNEVALE and HINES 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 will show you how to use NEURON to construct and apply empirically based models. Written ...

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The third edition of The Neuron provides a comprehensive first course in the cell and molecular biology of nerve cells. The first part of the book covers the properties of the many newly discovered ion channels that have emerged through mapping of the genome. These channels shape the way a single neuron generates varied patterns of electrical activity.

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[Brain Books - Knowing Neurons](#)

As Wikipedia says about the neuron, it is "... an electrically excitable cell that receives, processes, and transmits information through electrical and chemical signals." Almost all of this book concentrates on the work-horse of the (neo)cortex, the (spiny) pyramidal cell, which comprises 75-80% of cortical cells, even though some of the ...

[The Neuron - BrainFacts](#)

of the neuron another general structure of the neuron cell body (soma) A B FIGURE 1-1A and B Generic structure of neuron. This is an artist'sconception of the generic structure of a neuron. All neurons have a cell body known as the soma, which is the command center of the nerve and contains the nucleus of the cell.

[14.3: The Neuron - Medicine LibreTexts](#)

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Covering details of NEURON's inner workings, and practical considerations specifying anatomical and biophysical properties to be represented in models, this book uses a problem-solving approach ...

[The Neuron](#)

By creating AI, we have another measurement to compare ourselves to, a standard whole. But the human brain is wired differently, and our neurons fire for different things – different concepts in particular, such as the Jennifer Aniston neuron which this book briefly explores towards its conclusion.

[\[PDF\] The NEURON Book: Index | Semantic Scholar](#)

MyFirstNEURON. MyFirstNEURON is a NEURON demo written by Arthur Houweling after the book Electrophysiology of the Neuron by John Huguenard and David McCormick (New York 1994, Oxford University Press). MyFirstNEURON allows you to simulate experiments described in the book. The demo is appreciated best by following the suggestions of the book.

[The Adult Brain Does Grow New Neurons After All. Study ...](#)

The neuron is a member of the class of cells most closely identified with the functions of the nervous system, namely, the transduction, processing, storage, and translation of environmental information into meaningful behaviors. The term neuron was coined by the German neuroanatomist Wilhelm Waldeyer in 1891.

[Structure of a Neuron - Owlcation - Education](#)

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[Overview of neuron structure and function \(article\) | Khan ...](#)

A neuron or nerve cell is an electrically excitable cell that communicates with other cells via specialized connections called synapses.It is the main component of nervous tissue in all animals except sponges and placozoa. Plants and fungi do not have nerve cells.. Neurons are typically classified into three types based on their function. Sensory neurons respond to stimuli such as touch, sound ...

[Neuron simulation environment - Scholarpedia](#)

Neuron is a simulation environment for modeling individual and networks of neurons.It was primarily developed by Michael Hines, John W. Moore, and Ted Carnevale at Yale and Duke. Neuron models individual neurons via the use of sections that are automatically subdivided into individual compartments, instead of requiring the user to manually create compartments.

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