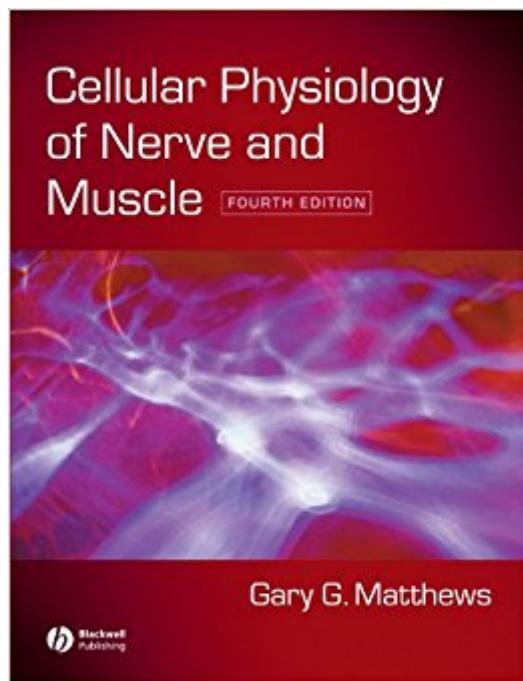


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# Cellular Physiology Of Nerve And Muscle



## **Synopsis**

Cellular Physiology of Nerve and Muscle, Fourth Edition offers a state of the art introduction to the basic physical, electrical and chemical principles central to the function of nerve and muscle cells. The text begins with an overview of the origin of electrical membrane potential, then clearly illustrates the cellular physiology of nerve cells and muscle cells. Throughout, this new edition simplifies difficult concepts with accessible models and straightforward descriptions of experimental results. An all-new introduction to electrical signaling in the nervous system. Expanded coverage of synaptic transmission and synaptic plasticity. A quantitative overview of the electrical properties of cells. New detailed illustrations.

## **Book Information**

Paperback: 248 pages

Publisher: Wiley-Blackwell; 4 edition (November 22, 2002)

Language: English

ISBN-10: 1405103302

ISBN-13: 978-1405103305

Product Dimensions: 7.5 x 0.6 x 9.7 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 9 customer reviews

Best Sellers Rank: #91,434 in Books (See Top 100 in Books) #55 in Books > Medical Books > Basic Sciences > Cell Biology #94 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Neuroscience #160 in Books > Medical Books > Basic Sciences > Microbiology

## **Customer Reviews**

Cellular Physiology of Nerve and Muscle offers a state of the art introduction to the basic physical, electrical, and chemical principles central to the function of nerve and muscle cells. The text begins with an overview of the origin of electrical membrane potential, then clearly illustrates the cellular physiology of nerve cells and muscle cells. Throughout, this new edition simplifies difficult concepts with accessible models and straightforward descriptions of experimental results. The fourth edition of Cellular Physiology of Nerve and Muscle features new material including: An all-new introduction to electrical signaling in the nervous system Expanded coverage of synaptic transmission and synaptic plasticity A quantitative overview of the electrical properties of cells New detailed illustrations

Best book for understanding details of neurophysiology and electrophysiology. As a neuroscience student I definitely recommend this book to those seeking for a better understanding in mechanism taking place for an action potential to be generated and conducted in the nervous system.

Succinct presentation of difficult principles and processes. A MUST read for introduction to the subject.

Really glad I got this book for my class it really helped me on the first exam we took, other than that would not use much.

This book is written to be very understandable. It takes you through everything slowly building up to more difficult concepts.

The book came very quickly and I am very happy that the book is filled with diagrams and pictures to better understand the material. Nicely done.

Overall it is a good text, Not very big and seemingly brief, but it gets to the point. It is sort of Cell Physiology cliff notes and really is good and giving you what you need and not extra fluff.

What could be worse than sitting in a lecture room without understanding the lecture material and desperately looking for a reference book that will lead you through the topics carefully? Sounds familiar, isn't it? Well, here is a book deserved to be mentioned. As a medical student, I have come across at least ten textbooks in cell physiology. Many of them are written without bearing in mind who their audiences are. However, "Gary Matthews'; Cellular Physiology of Nerve and Muscle" has approached the topics in the student's shoes and talked OUR LANGUAGE. Instead of throwing you the formulae, he would try to take you through the idea behind it such as how they are derived and answers your "WHYS". For instance, he takes his reader step by step to how the membrane potential is determined - really impressive. A little bit of understanding in basic biology, chemistry and physics would allow you read through the book comfortably. It is true that this book is aiming at a beginner group; it is however, a fantastic teaching tool for all lecturers (to draw examples) and those who would like to fully understand the fundamental science about synapses and neurotransmission.

This is hands down the best cell physiology book I've read. It is very well explained and easy to follow.

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