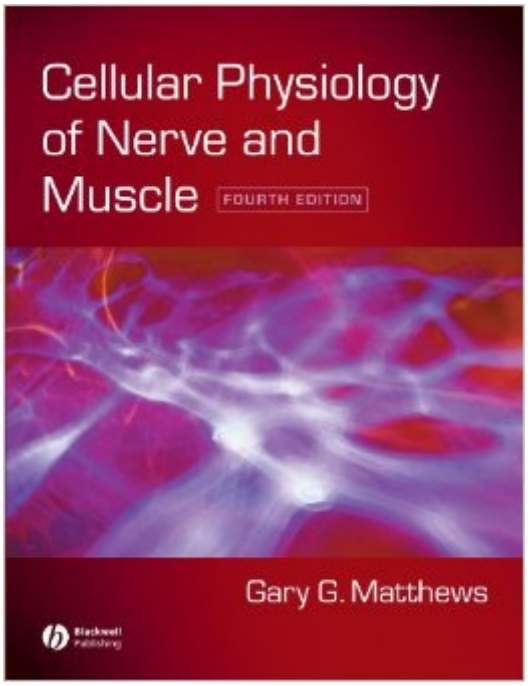
Cellular Physiology Of Nerve And Muscle



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

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Average Customer Review: 4.8 out of 5 starsÂ Â See all reviewsÂ (9 customer reviews)

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Customer Reviews

What could be worse than sitting in a lecture room without understanding the lecture material and desparately looking for a reference book that will lead you through the topics carefully? Sounds familiar, isn’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 dereived 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 fantasic teaching tool for all lecturers (to draw examples) and those who would like to fully understand the fundamental science about synapses and neurotransmission.

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.

Easy to read, easy to understand, easy to follow. 3 main aspects of this wonderfull book yet very rich in its contents. My appreciation goes to the fact that Gary Matthews is able to turn deep information about nerves and muscle cells in a way that we feel a pHD. about the subject. Very clever the way he starts every chapter making us feel we already knew all that stuff anyway it is not so.

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.

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

to Expert - Build Lean Muscle and Change Your Life (Lean Lifestyle, Lean Muscle, Lose Fat) CARDIO SUCKS: The Simple Science of Losing Fat Fast...Not Muscle (The Build Muscle, Get Lean, and Stay Healthy Series Book 4) Muscle Myths: 50 Health & Fitness Mistakes You Don't Know You're Making (The Build Muscle, Get Lean, and Stay Healthy Series Book 3) Weight Training: Muscle by Science: Your Simple Guide to Building a Muscular and Powerful Body (Build Muscle, Get Stronger, Workout, Gain Mass, Build Size, Gym, Weight Lifting, Exercise, Fitness) Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination, 8e (Daniels & Worthington's Muscle Testing (Hislop)) Ultramodern Nutrition for Squash Teachers: Teaching Your Students Advanced RMR Techniques to Improve Hand Speed, Reduce Muscle Soreness, and Accelerate Muscle Recovery The Ultimate Guide To Vegan Bodybuilding & Nutrition: How To Build Muscle With A Vegan Life Style, Eating Your Favorite Food (Vegan Bodybuilding, Vegan ... Smoothies, Vegan Lifestyle, Vegan muscle) Muscle Sounds In Physiology, Sports Science, And Clinical Investigation: Applications And History Of Mechanomyography Anatomy & Physiology: The Unity of Form and Function: Anatomy & Physiology: The Unity of Form and Function Maternal, Fetal, & Neonatal Physiology, 4e (Maternal Fetal and Neonatal Physiology) Respiratory Physiology: The Essentials (Respiratory Physiology: The Essentials (West))