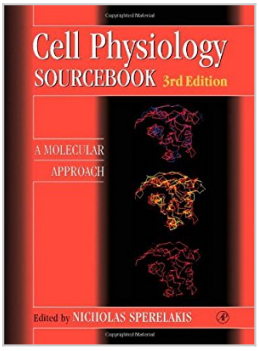

Cell Physiology Source Book, Third Edition: Essentials of Membrane Biophysics

By Nicholas Sperelakis

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This authoritative book gathers together a broad range of ideas and topics that define the field. It provides clear, concise, and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics. The Third Edition contains substantial new material. Most chapters have been thoroughly reworked. The book includes chapters on important topics such as sensory transduction, the physiology of protozoa and bacteria, the regulation of cell division, and programmed cell death.

- Completely revised and updated - includes 8 new chapters on such topics as membrane structure, intracellular chloride regulation, transport, sensory receptors, pressure, and olfactory/taste receptors
- Includes broad coverage of both animal and plant cells
- Appendixes review basics of the propagation of action potentials, electricity, and cable properties
- Authored by leading experts in the field
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Editorial Review

Review

Reviews of previous edition: "...a core textbook in cell physiology...The need for such a book is well justified and it fulfills its objectives admirably. It is especially strong on the subjects of signal transduction, membrane biology, ion channels, and neuronal and muscle cell physiology... It is a solid textbook in its field..." **--DOODY'S PUBLISHING REVIEWS**

"Cell Physiology Source Book 2e will be useful for advanced undergraduate and graduate students studying cell physiology, cell biophysics, electrophysiology, and biological scientists in many fields. The book is particularly suitable for introducing cell physiology to students with training in the physical sciences and for introducing cell biophysics to students with backgrounds in biology." **--BIOPHYSICAL JOURNAL**

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This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics. Intended primarily as a text for advanced undergraduate and graduate students and as a reference for researchers, this multidisciplinary book includes several new chapters and is an invaluable aid to scientists interested in cell physiology, biophysics, cell biology, electrophysiology, and cell signaling.
KEY FEATURES
* Completely revised and updated--includes 8 new chapters on such topics as membrane structure, intracellular chloride regulation, transport, sensory receptors, pressure effects, and infrared detectors
* Includes broad coverage of both animal and plant cells
* Appendixes review basics of the propagation of action potentials, electricity, and cable properties
* Authored by leading experts in the field
* Clear, concise, comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics
PRAISE FOR THE SECOND EDIITION
"[T]he authoritative volume in the field of cell physiology and certainly one of the most current sources of comprehensive information available." --CHOICE
"...a core textbook in cell physiology... The need for such a book is well justified and it fulfills its objectives admirably. It is especially strong on the subjects of signal transduction, membrane biology, ion channels, and neuronal and muscle cell physiology... It is a solid textbook in its field..." --DOODY'S PUBLISHING REVIEWS
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The Cell Physiology Source Book was on CHOICE's list of Outstanding Academic Books for 1996 and the second edition was on CHOICE's list of Outstanding Academic Books in 1998.

About the Author
Professor Sperelakis currently is Professor and Chairman Emeritus of Physiology and Biophysics at the College of Medicine at the University of Cincinnati. He is a cell physiologist specializing in cellular

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