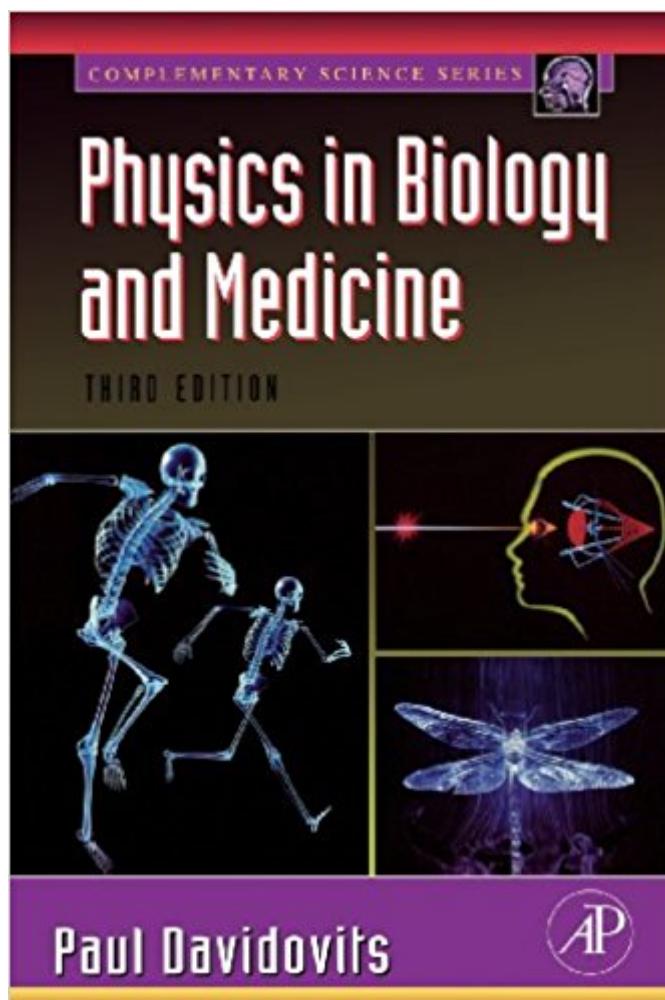


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Physics In Biology And Medicine, Third Edition (Complementary Science)



Synopsis

Physics in Biology and Medicine, Third Edition covers topics in physics as they apply to the life sciences, specifically medicine, physiology, nursing, and other applied health fields. This concise introductory paperback surveys and relates basic physics to living systems. It discusses biological systems that can be analyzed quantitatively, and how advances in the life sciences have been aided by the knowledge of physical or engineering analysis techniques. This text is designed for premed students, doctors, nurses, physiologists, or other applied health workers, and other individuals who wish to understand the nature of the mechanics of our bodies. - Provides practical techniques for applying knowledge of physics to the study of living systems- Presents material in a straight forward manner requiring very little background in physics or biology- Includes many figures, examples and illustrative problems and appendices which provide convenient access to the most important concepts of mechanics, electricity, and optics

Book Information

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Customer Reviews

Reviews from the second edition:"This is a book you should consider if you are teaching the one-semester premed course. This text could be used in two ways: 1) as a text for a one-term course in the physics of the body (without calculus) for non-physics majors in premed or allied health programs, or 2) as a supplementary text for the introductory physics course, particularly for premed students."-Russell Hobbie, University of Minnesota"There is certainly a viable market (for this book), if not as a stand-alone physics text, as a collection of problems, examples, and discussions at the boundary between physics and biology and medicine. It is very well written; it is

certainly accurate; and it is pretty complete."-David Cinabro, Wayne State University

Paul Davidovits, Professor of Chemistry at Boston College, was co-awarded the prestigious R.W. Wood prize from the Optical Society of America for his seminal work in optics. His contribution was foundational in the field of confocal microscopy, which allows engineers and biologists to produce optical sections through 3D objects such as semiconductor circuits, living tissues, or a single cell. Dr. Davidovits earned his doctorate, masters, and undergraduate degrees from Columbia University. Prior to his appointment at Boston College, he was a faculty member at Yale University. He has published more than 150 papers in physical chemistry and is a Fellow of the American Physical Society and of the American Association for Advancement of Science. The second edition of Physics in Biology and Medicine received the Alpha Sigma Nu Book Award in the Discipline of the Natural Sciences.

I needed this book for an open-note, open-book course. The sections were clearly defined, and it was easy to read unlike most textbooks. If it's required for a course, this is one of those books that you might actually get something from reading because it is not super technical.

A must read so informative can't live with out this. :)

The book cover a wide variety of useful topics of physics that are of interest to students of biology and, probably, medicine. The topics are well selected, and has enought deep as to explain to the student several phenomena found in the living matter. The lack of deepness and math allow an average biology student to work with him. If your are looking for a deep coverage, this is not your book.

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