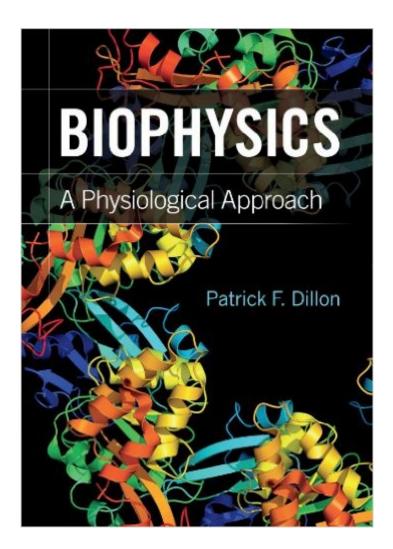
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Biophysics: A Physiological Approach





Synopsis

Specifically tailored to life science students, this textbook explains quantitative aspects of human biophysics with examples drawn from contemporary physiology, genetics and nanobiology. It outlines important physical ideas, equations and examples at the heart of contemporary physiology, along with the organization necessary to understand that knowledge. The wide range of biophysical topics covered include energetics, bond formation and dissociation, diffusion and directed transport, muscle and connective tissue physics, fluid flow, membrane structure, electrical properties and transport, pharmacokinetics and system dynamics and stability. Enabling students to understand the uses of quantitation in modern biology, equations are presented in the context of their application, rather than derivation. They are each directed toward the understanding of a biological principle, with a particular emphasis on human biology. Supplementary resources, including a range of test questions, are available at www.cambridge.org/9781107001442.

Book Information

Paperback: 314 pages Publisher: Cambridge University Press; 1 edition (February 27, 2012) Language: English ISBN-10: 0521172160 ISBN-13: 978-0521172165 Product Dimensions: 6.8 × 0.6 × 9.7 inches Shipping Weight: 1.4 pounds (View shipping rates and policies) Average Customer Review: 4.0 out of 5 stars Â See all reviews (1 customer review) Best Sellers Rank: #1,058,771 in Books (See Top 100 in Books) #206 in Books > Science & Math > Biological Sciences > Biophysics #777 in Books > Science & Math > Biological Sciences > Biology > Molecular Biology #1308 in Books > Textbooks > Science & Mathematics > Biology & Life Sciences > Anatomy & Physiology

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