Biophysics: An Introduction

Rodney Cotterill
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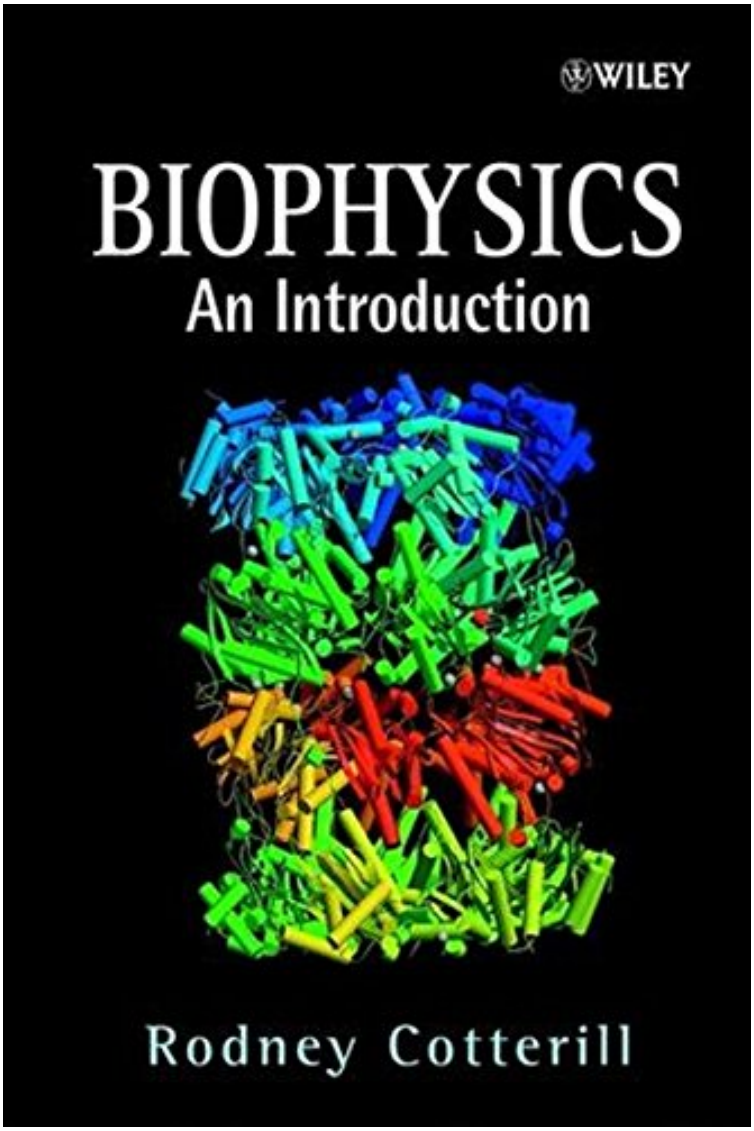

#1564275 in Books Rodney Cotterill 2002-06-15Original language:EnglishPDF # 1 9.70 x .83 x 6.77l, 1.45 #File Name: 0471485381408 pagesBiophysics An Introduction | File size: 55.Mb

Rodney Cotterill : Biophysics: An Introduction before purchasing it in order to gage whether or not it would be worth my time, and all praised Biophysics: An Introduction:

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particle physics, engineering, and computer science, this book has made me consider aiming for biophysics instead. Now I'm off to see if Rodney has written anything else I can buy...0 of 2 people found the following review helpful. Five StarsBy Jose FVery good4 of 26 people found the following review helpful. complete and formal introductionBy Guruit is really a well written and upto date book, with perhaps the widest coverage.

Biophysics is an evolving, multidisciplinary subject which applies physics to biological systems and promotes an understanding of their physical properties and behaviour. Biophysics: An Introduction, is a concise balanced introduction to this subject. Written in an accessible and readable style, the book takes a fresh, modern approach with the author successfully combining key concepts and theory with relevant applications and examples drawn from the field as a whole. Beginning with a brief introduction to the origins of biophysics, the book takes the reader through successive levels of complexity, from atoms to molecules, structures, systems and ultimately to the behaviour of organisms. The book also includes extensive coverage of biopolymers, biomembranes, biological energy, and nervous systems. The text not only explores basic ideas, but also discusses recent developments, such as protein folding, DNA/RNA conformations, molecular motors, optical tweezers and the biological origins of consciousness and intelligence. Biophysics: An Introduction * Is a carefully structured introduction to biological and medical physics * Provides exercises at the end of each chapter to encourage student understanding Assuming little biological or medical knowledge, this book is invaluable to undergraduate students in physics, biophysics and medical physics. The book is also useful for graduate students and researchers looking for a broad introduction to the subject.

"...quite useful...review thoroughly enjoyed reading...it would be quite satisfactory for an introductory course..." (Health Physics, Vol. 84, No. 5, May 2003) "...essential reading for anyone putting a biophysics course together...the book brings together essential material usually omitted from the undergraduate physics curriculum..." (American Journal of Physics, November 2003)From the Back CoverBiophysics is an evolving, multidisciplinary subject which applies physics to biological systems and promotes an understanding of their physical properties and behaviour. Biophysics: An Introduction, is a concise balanced introduction to this subject. Written in an accessible and readable style, the book takes a fresh, modern approach with the author successfully combining key concepts and theory with relevant applications and examples drawn from the field as a whole. Beginning with a brief introduction to the origins of biophysics, the book takes the reader through successive levels of complexity, from atoms to molecules, structures, systems and ultimately to the behaviour of organisms. The book also includes extensive coverage of biopolymers, biomembranes, biological energy, and nervous systems. The text not only explores basic ideas, but also discusses recent developments, such as protein folding, DNA/RNA conformations, molecular motors, optical tweezers and the biological origins of consciousness and intelligence. Biophysics: An Introduction * Is a carefully structured introduction to biological and medical physics * Provides exercises at the end of each chapter to encourage student understanding Assuming little biological or medical knowledge, this bookis invaluable to undergraduate students in physics, biophysics and medical physics. The book isalso useful for graduate students and researchers looking for a broad introduction to the subject.