



Physics of Life: The Physicist's Road to Biology (Hardback)

By Clas Blomberg

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2007.

Hardback. Book Condition: New. New.. 252 x 160 mm. Language:

English . Brand New Book. The purpose of the book is to give a

survey of the physics that is relevant for biological applications, and also to discuss what kind of biology needs physics. The book

gives a broad account of basic physics, relevant for the

applications and various applications from properties of

proteins to processes in the cell to wider themes such as the

brain, the origin of life and evolution. It also considers general

questions of common interest such as reductionism,

determinism and randomness, where the physics view often is

misunderstood. The subtle balance between order and disorder

is a repeated theme appearing in many contexts. There are

descriptive parts which shall be sufficient for the comprehension

of general ideas, and more detailed, formalistic parts for those

who want to go deeper, and see the ideas expressed in terms of

mathematical formulas. This book describes how physics is

needed for understanding basic principles of biology. It discusses

the delicate balance between order and disorder in living

systems. It explores how physics play a role high biological

functions, such as learning and thinking.



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Reviews

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