

# The Alternative Introduction To Biological Anthropology

An Introduction to General Biology Introduction to biology Introducing Biological Energetics An Introduction to Biological Evolution Symbiosis The Biology of Nematodes Bioinformatics Challenges at the Interface of Biology and Computer Science School Nature Study Introduction to Biology Basic Biology Encyclopedia of Plant and Crop Science (Print) Introduction to Biological Evolution Introduction to Biology Principles and Techniques of Biochemistry and Molecular Biology An Introduction to Mathematical Physiology and Biology Bibliography of Medical Translations Biophysics Teachers' Manual of Biology Philosophy of Biology An Introduction to Social Biology William Thompson Sedgwick Maurice Alpheus Bigelow Norman W. H. Cheetham Kenneth V. Kardong Surindar Paracer Donald L Lee Teresa K. Attwood D. G. Mackean Adam Purcell Robert M. Goodman Kenneth Kardong D. G. Mackean Keith Wilson J. Mazumdar Rodney Cotterill Maurice Alpheus Bigelow Samir Okasha Alan Dale

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this novel interdisciplinary text presents biological understanding in terms of general underlying principles treating energy as the overarching theme and emphasizing the all pervading influence of energy transformation in every process both living and non living key processes and concepts are explained in turn culminating in a description of the overall functioning and regulation of a living cell the book rounds off the story of life with a brief account of the endosymbiotic origins of eukaryotic cells the development of multicellularity and the emergence of modern plants and animals multidisciplinary research in science is becoming commonplace however as traditional boundaries start to break down researchers are increasingly aware of the deficiencies in their knowledge of related disciplines introducing biological energetics redresses the reciprocal imbalance in the knowledge levels of physical and biological scientists in particular its style of presentation and depth of treatment has been carefully designed to unite these two readerships

written for a general college audience this book offers an introduction to the principles and significance of darwinian evolution it differs from most other textbooks on evolution in three fundamental ways first it is intended for students taking evolution early in their studies second it examines the intellectual significance of darwinian evolution and third the text departs from the standard treatment of evolution in other textbooks wherein the arguments are reductionist molecular and overwhelmingly genetic in emphasis ken kardong also author of vertebrates comparative anatomy function evolution is known for his accessible writing style his almost conversational approach to this topic puts the reader at ease while learning evolutionary concepts the result is an inviting book that will be read

the first edition of this book published by university press of new england in 1986 sold over 2500 copies and was received as the best introductory overview of this broad field quite a lot has happened in the field of symbiosis in the past 10 years especially concerning molecular mechanisms ahmadjian and paracer have thoroughly updated their book addressing advances in the field and the emergence of fields such as cellular microbiology immunoparasitology and endocytobiology which have revealed new aspects of symbiosis it is the only book to cover all aspects of symbiosis at an introductory level

the biology of nematodes synthesizes literature on free living plant parasitic and animal parasitic nematodes topics covered include systematics and phylogeny neuromuscular physiology locomotion sense organs behavior aging the nematode genome survival strategies immunology structure and organization gametes and fertilization and feeding and metabolism this volume the most authoritative available includes contributions from researchers working on groundbreaking molecular techniques leading to new approaches in the study of nematode worms it provides an important resource for research scientists working in a number of agricultural medical and biological fields

this innovative book provides a completely fresh exploration of bioinformatics investigating its complex interrelationship with biology and computer science it approaches bioinformatics from a unique perspective highlighting interdisciplinary gaps that often trap the unwary the book considers how the need for biological databases drove the evolution of bioinformatics it reviews bioinformatics basics including database formats data types and current analysis methods and examines key topics in computer science including data structures identifiers and algorithms reflecting on their use and abuse in bioinformatics bringing these disciplines together this book is an essential read for those who wish to better understand the challenges for bioinformatics at the interface of biology and computer science and how to bridge the gaps it will be an invaluable resource for advanced undergraduate and postgraduate students and for lecturers researchers and professionals with an interest in this fascinating fast moving discipline and the knotty problems that surround it

basic biology an introduction takes the reader through the basic information about life on earth using easy to follow language the book introduces readers to topics such as genetics cells evolution basic biochemistry the broad categories of organisms plants animals and taxonomy

encyclopedia of plant and crop science is the first ever single source reference work to inclusively cover classic and modern studies in plant biology in conjunction with research applications and innovations in crop science and agriculture from the fundamentals of plant growth and reproduction to developments in agronomy and agricultural science the encyclopedia s authoritative content nurtures communication between these academically distinct yet intrinsically related fields offering a spread of clear descriptive and concise entries to optimally serve scientists agriculturalists policy makers students and the general public also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for both researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options for more information visit taylor and francis online or contact us to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

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uniquely integrates the theory and practice of key experimental techniques for bioscience undergraduates now includes drug discovery and clinical biochemistry

this textbook is concerned with the mathematical modelling of biological and physiological phenomena for mathematically sophisticated students a range of topics are discussed diffusion population dynamics autonomous differential equations and the stability of ecosystems biogeography pharmacokinetics biofluid mechanics cardiac mechanics the spectral analysis of heart sounds using fft techniques the last chapter deals with a wide variety of commonly used medical devices this book is based on courses taught by the author over many years and the material is well class tested the reader is aided by many exercises that examine key points and extend the presentation in the body of the text all students of mathematical biology will find this book to be a highly useful resource

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

over the last forty years the philosophy of biology has emerged as an important sub discipline of the philosophy of science covering some of science s most divisive topics such as philosophical issues in genetics it also encompasses areas where modern biology has increasingly impinged on traditional philosophical questions such as free will essentialism and nature vs nurture in this very short introduction samir okasha outlines the core issues with which contemporary philosophy of biology is engaged offering a whistle stop tour of the history of biology he explores key ideas and paradigm shifts throughout the centuries including areas such as the theory of evolution by natural selection the concepts of function and design biological individuality and the debate over adaptationism throughout okasha makes clear the relevance of biology for understanding human beings human society and our place in the natural world and the importance of engaging with these issues about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

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