Oceanography Marine Biology Sinauer Associates

LifeLifeLifeLifeAnalysis of Biological NetworksConservation BiologyEvolutionary BiologyLife, the Science of BiologyConservation Biology for AllMapping the Future of BiologyLifeLifeApplied Ecology and Human Dimensions in Biological ConservationLife, the Science of Biology: DevelopmentLifeBiology InternationalLife, the Science of Biology: Evolution, diversity, and ecologyHandbook of Biological ControlAn Introduction to Methods & Models in Ecology, Evolution, & Conservation BiologyBiology William Kirkwood Purves William Kirkwood Purves Björn H. Junker Fred Van Dyke Douglas J. Futuyma David E. Sadava Navjot S. Sodhi Anouk Barberousse David Sadava William K. Purves Luciano M. Verdade William Kirkwood Purves T. W. Fisher Stan Braude Colleen M. Belk

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an introduction to biological networks and methods for their analysis analysis of biological networks is the first book of its kind to provide readers with a comprehensive introduction to the structural analysis of biological networks at the interface of biology and computer science the book begins with a brief overview of biological networks and graph theory graph algorithms and goes on to explore global network properties network centralities network motifs network clustering petri nets signal transduction and gene regulation networks protein interaction networks metabolic networks phylogenetic networks ecological networks and correlation networks analysis of biological networks is a self contained introduction to this important research topic assumes no expert knowledge in computer science or biology and is accessible to professionals and students alike each chapter concludes with a summary of main points

and with exercises for readers to test their understanding of the material presented additionally an ftp site with links to author provided data for the book is available for deeper study this book is suitable as a resource for researchers in computer science biology bioinformatics advanced biochemistry and the life sciences and also serves as an ideal reference text for graduate level courses in bioinformatics and biological research

this book provides a thorough up to date examination of conservation biology and the many supporting disciplines that comprise conservation science in this the third edition of the highly successful conservation biology foundations concepts applications the authors address their interdisciplinary topic as it must now be practiced and perceived in the modern world beginning with a concise review of the history of conservation the authors go on to explore the interplay of conservation with genetics demography habitat and landscape aquatic environments and ecosystem management and the relationship of all these disciplines to ethics economics law and policy an entirely new chapter the anthropocene conservation in a human dominated nature breaks new ground in its exploration of how conservation can be practiced in anthropogenic biomes novel ecosystems and urban habitats the third edition includes the popular points of engagement discussion questions used in earlier editions and adds a new feature information boxes which briefly recap specific case histories described in the text a concluding chapter offers insight into how to become a conservation professional in both traditional and non traditional roles the authors fred van dyke and rachel lamb draw on their expertise as field biologists wildlife managers consultants to government and industry and scholars of environmental law policy and advocacy as well as their many years of effective teaching experience informed by practical knowledge and acquired skills the authors have created a work of exceptional clarity and readability which encompasses both systemic foundations as well as contemporary developments in the field conservation biology foundations concepts applications will be of invaluable benefit to undergraduate and graduate students as well as to working conservation scientists and managers this is an amazing resource for students faculty and practitioners both new and experienced to the field diane debinski phd unexcelled wisdom for living at home on wonderland earth the planet with promise destined for abundant life holmes rolston phd van dyke and lamb have maintained the original text s emphasis on connecting classical ecological and environmental work with updated modern applications and lucid examples but more importantly the third edition contains much new material on the human side of conservation including expanded treatments of policy economics and climate change tim van deelen phd fred van dyke and rachel lamb break new ground in both the breadth and depth of their review and analysis of this crucially important and

rapidly changing field any student or other reader wishing to have a comprehensive overview and understanding of the complexities of conservation biology need look no further this book is your starting point simon n stuart phd anyone who teaches talks or writes and works on conservation biology needs this latest edition of conservation biology foundations concepts applications 3rd edition by fred van dyke and rachel l lamb this will be useful to both beginners and experts as well the authors included almost all important issues in relation to conservation biology this is really an outstanding book bidhan chandra das professor ecology branch department of zoology university of rajshahi bangladesh

covers the genetic developmental and ecological mechanisms of evolutionary change the major features of evolutionary history as revealed by phylogenetic and paleontological studies and material on adaptation molecular evolution co evolution and human evolution

conservation biology for all provides cutting edge but basic conservation science to a global readership a series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting edge conservation knowledge as widely as possible important topics such as balancing conversion and human needs climate change conservation planning designing and analyzing conservation research ecosystem services endangered species management extinctions fire habitat loss and invasive species are covered numerous textboxes describing additional relevant material or case studies are also included the global biodiversity crisis is now unstoppable what can be saved in the developing world will require an educated constituency in both the developing and developed world habitat loss is particularly acute in developing countries which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found sadly developing world conservation scientists have found it difficult to access an authoritative textbook which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest there is now an urgent need to educate the next generation of scientists in developing countries so that they are in a better position to protect their natural resources

carving nature at its joints in order to map the future of biology we need to understand where we are and how we got there present day biology is the realization of the famous metaphor of the organism as a bete ˆ machine elaborated by descartes in part v of the discours a realization far beyond what anyone in the seventeenth century could have im ined until the middle of the nineteenth century that machine was an articulated

collection of macroscopic parts a system of gears and levers moving gasses solids and liquids and causing some parts of the machine to move in response to the force produced by others then in the nineteenth century two divergent changes occurred in the level at which the living machine came to be investigated first with the rise of chemistry and the particulate view of the composition of matter the forces on macroscopic machine came to be understood as the ma festation of molecular events and functional biology became a study of molecular interactions that is the machine ceased to be a clock or a water pump and became an articulated network of chemical reactions until the rst third of the twentieth century this chemical view of life as re ected in the development of classical b chemistry treated the chemistry of biological molecules in much the same way as for any organic chemical reaction with reaction rates and side products that were the consequence of statistical properties of the concentrations of reactants

authoritative thorough and engaging life the science of biology achieves an optimal balance of scholarship and teachability never losing sight of either the science or the student the first introductory text to present biological concepts through the research that revealed them life covers the full range of topics with an integrated experimental focus that flows naturally from the narrative this approach helps to bring the drama of classic and cutting edge research to the classroom but always in the context of reinforcing core ideas and the innovative scientific thinking behind them students will experience biology not just as a litany of facts or a highlight reel of experiments but as a rich coherent discipline

this book provides both the conceptual basis and technological tools that are necessary to identify and solve problems related to biodiversity governance the authors discuss intriguing evolutionary questions which involve the sometimes surprising adaptive capacity of certain organisms to dwell in altered and or changing environments that apparently lost most of their structure and functionality space and time heterogeneities are considered in order to understand the patterns of distribution and abundance of species and the various processes that mold them the book also discusses at which level from genes to the landscape including individuals populations communities and ecosystems men should intervene in nature in order to prevent the loss of biodiversity

for many years the use of chemical agents such as pesticides and herbicides has been effective in controlling the many varieties of pests that infest both agricultural crops and backyard gardens however these pests are gradually becoming resistant to these agents because the agents themselves are acting as selective factors making the pests better and better able to resist and persist as a result the use of biological controlling agents is

increasing this book is a comprehensive and authoritative handbook of biological control

populations demography genetics

designed for one semester courses in introductory biology for non major biology students this issues based inquiry driven biology text provides students with the ability and desire to take an active and scholarly interest in the science issues they will regularly face in college

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