

Fundamentals Of Conservation Biology 3rd Edition

Revised and edited, this new third edition reference covers the full scope of energy management techniques and applications for new and existing buildings, with emphasis on the "systems" approach to developing an effective overall energy management strategy. Foremost in the enhancements to the new edition is content that reflects the emphasis on conservation for "green energy" awareness. Also examined are building structural considerations, such as heat loss and gain, windows, and insulation. A thorough discussion of heating and cooling systems basics is provided, along with energy management guidelines. Also covered are energy conservation measures that may be applied for lighting systems, water systems, and electrical systems. Specific energy management technologies and their application are discussed in detail, including solar energy systems, energy management systems, and alternative energy technologies.

- Covers the full scope of energy management techniques and applications for new and existing buildings
- Emphasizes a "systems" approach to developing an effective overall energy management strategy
- Includes enhanced content that reflects the emphasis on conservation for "green energy" awareness

Fred Van Dyke's new textbook, *Conservation Biology: Foundations, Concepts, Applications*, 2nd Edition, represents a major new text for anyone interested in conservation. Drawing on his vast experience, Van Dyke's organizational clarity and

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readable style make this book an invaluable resource for students in conservation around the globe. Presenting key information and well-selected examples, this student-friendly volume carefully integrates the science of conservation biology with its implications for ethics, law, policy and economics.

Filled with numerous exercises this practical guide provides a real hands-on approach to learning the essential concepts and techniques of landscape ecology. The knowledge gained enables students to usefully address landscape-level ecological and management issues. A variety of approaches are presented, including: group discussion, thought problems, written exercises, and modelling. Each exercise is categorised as to whether it is for individual, small group, or whole class study.

Destruction of habitat due to urban sprawl, pollution, and deforestation has caused population declines or even extinction of many of the world's approximately 2,600 snake species. Furthermore, misconceptions about snakes have made them among the most persecuted of all animals, despite the fact that less than a quarter of all species are venomous and most species are beneficial because they control rodent pests. It has become increasingly urgent, therefore, to develop viable conservation strategies for snakes and to investigate their importance as monitors of ecosystem health and indicators of habitat sustainability. In the first book on snakes written with a focus on conservation, editors Stephen J. Mullin and Richard A. Seigel bring together leading herpetologists to review and synthesize the ecology, conservation, and management of

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snakes worldwide. These experts report on advances in current research and summarize the primary literature, presenting the most important concepts and techniques in snake ecology and conservation. The common thread of conservation unites the twelve chapters, each of which addresses a major subdiscipline within snake ecology. Applied topics such as methods and modeling and strategies such as captive rearing and translocation are also covered. Each chapter provides an essential framework and indicates specific directions for future research, making this a critical reference for anyone interested in vertebrate conservation generally or for anyone implementing conservation and management policies concerning snake populations. This extensively revised, restructured, and updated edition continues to present an engaging and comprehensive introduction to the subject, exploring the world's landforms from a broad systems perspective. It covers the basics of Earth surface forms and processes, while reflecting on the latest developments in the field. Fundamentals of Geomorphology begins with a consideration of the nature of geomorphology, process and form, history, and geomorphic systems, and moves on to discuss: structure: structural landforms associated with plate tectonics and those associated with volcanoes, impact craters, and folds, faults, and joints process and form: landforms resulting from, or influenced by, the exogenic agencies of weathering, running water, flowing ice and meltwater, ground ice and frost, the wind, and the sea; landforms developed on limestone; and landscape evolution, a discussion of ancient

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landforms, including palaeosurfaces, stagnant landscape features, and evolutionary aspects of landscape change. This third edition has been fully updated to include a clearer initial explanation of the nature of geomorphology, of land surface process and form, and of land-surface change over different timescales. The text has been restructured to incorporate information on geomorphic materials and processes at more suitable points in the book. Finally, historical geomorphology has been integrated throughout the text to reflect the importance of history in all aspects of geomorphology. Fundamentals of Geomorphology provides a stimulating and innovative perspective on the key topics and debates within the field of geomorphology. Written in an accessible and lively manner, it includes guides to further reading, chapter summaries, and an extensive glossary of key terms. The book is also illustrated throughout with over 200 informative diagrams and attractive photographs, all in colour.

In this revised edition of "Herpetology," the authors provide the only treatment of amphibians and reptiles that integrates information about evolutionary relationships with ecology, behavior, and physiology and provide up-to-date references to the primary literature. KEY TOPICS" The book is broken down into four parts and explores these specific questions: what are amphibians and reptiles; how do they work; what do they do; and what are their prospects for survival. MARKET" This book is ideal for professionals such as zoo and aquarium curators, animal keepers, reptile and amphibian hobbyists, wildlife managers and conservationists who are looking for an

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integrated approach to the ecology, behavior, morphology, and physiology of amphibians and reptiles, presented in a phylogenetic and organismal context. This is an introduction to the concepts and principles for solving management problems in wildlife and conservation biology. The book shows how population biology addresses questions involving the harvest, monitoring, and conservation of wildlife populations. Discusses the many different life forms that have existed on Earth, their importance, and how they have changed over time.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of

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Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

This fully revised and expanded edition of Fundamentals of Soil Ecology continues its holistic approach to soil biology and ecosystem function. Students and ecosystem researchers will gain a greater understanding of the central roles that soils play in ecosystem development and function. The authors emphasize the increasing importance of soils as the organizing center for all terrestrial ecosystems and provide an overview of theory and practice of soil ecology, both from an ecosystem and evolutionary biology point of view. This volume contains updated and greatly expanded coverage of all belowground biota (roots, microbes and fauna) and methods to identify and determine its distribution and abundance. New chapters are provided on soil biodiversity and its relationship to ecosystem processes, suggested laboratory and field methods to measure biota and their activities in ecosystems.. Contains over 60% new material and 150 more pages Includes new chapters on soil biodiversity and its relationship to ecosystem function Outlines suggested laboratory and field methods Incorporates new pedagogical features Combines theoretical and practical approaches

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments

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in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit <http://garlandscience.rocketmix.com/>.

This new text combines theory and applied and basic research to explain the connections between conservation biology and ecology, climate change biology, the protection of endangered species, protected area management, environmental economics, and sustainable development. A major theme throughout the book is the active role that scientists, local people, the general public, conservation organizations, and governments can play in protecting biodiversity, even while providing for human needs.

This contemporary introduction to the principles and research base of cultural ecology is the ideal textbook for advanced undergraduate and beginning graduate courses that deal with the intersection of humans and the environment in traditional societies. After introducing the basic principles of cultural anthropology, environmental studies, and human biological adaptations to

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the environment, the book provides a thorough discussion of the history of, and theoretical basis behind, cultural ecology. The bulk of the book outlines the broad economic strategies used by traditional cultures: hunting/gathering, horticulture, pastoralism, and agriculture. Fully explicated with cases, illustrations, and charts on topics as diverse as salmon ceremonies among Northwest Indians, contemporary Maya agriculture, and the sacred groves in southern China, this book gives a global view of these strategies. An important emphasis in this text is on the nature of contemporary ecological issues, how peoples worldwide adapt to them, and what the Western world can learn from their experiences. A perfect text for courses in anthropology, environmental studies, and sociology.

If you're thinking of Jason and the Argonauts, think again. In this book, the golden mouse is used as a model to explore conceptual issues in ecology across all levels of organization from organism to landscape, integrating reductionist and holistic ecological science. Through intensive study of a single species, the authors demonstrate biological and ecological information applicable to many fields, including conservation and resource management. Completely revised, the 3rd edition of this textbook has been expanded to emphasise both terrestrial and marine conservation issues as well as efforts in the US and across the globe. The second edition of *Wildlife Ecology, Conservation, and Management* provides a thorough introduction to general ecological principles and examines how they can be applied to wildlife management and conservation. Expanded and updated, this second edition includes new chapters on understanding ecosystems and the use of computer models in wildlife management. Gives a comprehensive, up-to-date overview of ecology including the latest theories on population dynamics and conservation. Reviews practical applications and

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techniques and how these can be used to formulate realistic objectives within an ecological framework. Examples of real-life management situations from around the world provide a broad perspective on the international problems of conservation. Worked examples on CD enable students to practice calculations explained in the text. Artwork from the book is available to instructors online at www.blackwellpublishing.com/sinclair. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

This is a comprehensive textbook for A-level students and first-year undergraduates taking courses in biology, geography and Earth sciences.

Computational Fluid Dynamics (CFD) is an important design tool in engineering and also a substantial research tool in various physical sciences as well as in biology. The objective of this book is to provide university students with a solid foundation for understanding the numerical methods employed in today's CFD and to familiarise them with modern CFD codes by hands-on experience. It is also intended for engineers and scientists starting to work in the field of CFD or for those who apply CFD codes. Due to the detailed index, the text can serve as a reference handbook too. Each chapter includes an extensive bibliography, which provides an excellent basis for further studies.

Fundamentals of Human Biology and Health gives students a solid understanding of how human cells, tissues, organs, organ systems, and whole organisms operate. Designed to be used on its own or as a supplement to other texts, the material includes clear, concise information covering the main physiological systems in the human body, their interconnections,

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and what individuals can do to maintain healthy bodies and lifestyles. The text explores how and why we study biology, and where human beings fit into the amazing diversity of life. There is also coverage of basic chemistry as it relates to the study of biology. After a tour of the typical human cell, the text provides information on different tissues and organ systems. This includes relevant disorders, diseases, drugs, nutrition, and various health issues. Subsequent material addresses genetics, evolution, ecology, and conservation. Fundamentals of Human Biology and Health provides basic information in an accessible way. This text can be used in any introductory general or human biology course. The accessible language is appropriate for both high school and college level students. It can also be used in courses on anatomy and physiology.

This set of exercises has been created expressly for students and teachers of conservation biology and wildlife management who want to have an impact beyond the classroom. The book presents a set of 32 exercises that are primarily new and greatly revised versions from the book's successful first edition. These exercises span a wide range of conservation issues: genetic analysis, population biology and management, taxonomy, ecosystem management, land use planning, the public policy process and more. All exercises discuss how to take what has been learned and apply it to practical, real-world issues. Accompanied by a detailed instructor's manual and a student website with software and support materials, the book is ideal for use in the field, lab, or classroom. Also available: Fundamentals of Conservation Biology, 3rd edition (2007) by Malcolm L Hunter Jr and James Gibbs, ISBN 9781405135450 Saving the Earth as a Career: Advice on Becoming a Conservation Professional (2007) by Malcolm L Hunter Jr, David B Lindenmayer and Aram JK Calhoun, ISBN 9781405167611

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Beginning systematically with the fundamentals, the fully-updated third edition of this popular graduate textbook provides an understanding of all the essential elements of marine optics. It explains the key role of light as a major factor in determining the operation and biological composition of aquatic ecosystems, and its scope ranges from the physics of light transmission within water, through the biochemistry and physiology of aquatic photosynthesis, to the ecological relationships that depend on the underwater light climate. This book also provides a valuable introduction to the remote sensing of the ocean from space, which is now recognized to be of great environmental significance due to its direct relevance to global warming. An important resource for graduate courses on marine optics, aquatic photosynthesis, or ocean remote sensing; and for aquatic scientists, both oceanographers and limnologists.

Provides essays, exercises, summaries, learning tools, and definitions focusing on the issues surrounding ecosystem management.

This text combines theory and applied and basic research to explain the connections between conservation biology and ecology, climate change biology, the protection of endangered species, protected area management, environmental economics, and sustainable development. A major theme throughout the book is the active role that scientists, local people, the general public, conservation organizations, and governments can play in protecting biodiversity, even while providing for human needs. Each chapter begins with general ideas and principles, which are illustrated with choice examples from the current literature. The most instructive examples are discussed in boxes highlighting projects, species, and issues of particular significance. Chapters end with summaries, an annotated list of suggested readings, and discussion questions. This new edition comes with extensive summary statements in the

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text margins, as study aids.

This up-to-date textbook of global vegetation ecology, which comprises the current state of knowledge, is long overdue and much-needed. It is a translation of the textbook “Vegetation der Erde” (Springer-Spektrum, Heidelberg). A short introductory chapter deals with the fundamentals of vegetation ecology that are of importance for the delimitation and characterization of the global vegetation presented in this book (chorology, evolution of plants, physiognomic and structural characteristics, phytodiversity and the human impact on it as well as general terminology concerning both plant growth forms and on vegetation structure types). In the following chapters the zonal and azonal vegetation from the tropics to the polar regions including high mountains is described and discussed. The main focus is on the characterization of interactions between the spatial location of plants and plant communities on the one hand and site conditions, historic and genetic processes, spatial and temporal patterns, ecophysiology and anthropogenic influences on the other hand. Additional information on specific topics is provided in 51 boxes.

An in-depth analysis of the impact conservation behaviour can have to develop practical tools to safeguard against biodiversity extinction.

The use of wildlife for food and other human needs poses one of the greatest threats to the conservation of biodiversity. Wildlife exploitation is also critically important to many people from a variety of cultures for subsistence and commerce. This book brings together international experts to examine interactions between the biology of wildlife and the divergent goals of people

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involved in hunting, fishing, gathering and culling wildlife. Reviews of theory show how sustainable exploitation is tied to the study of population dynamics, with direct links to reproductive rates, life histories, behaviour, and ecology. As such theory is rarely put into practice to achieve sustainable use and effective conservation, *Conservation of Exploited Species* explores the many reasons for this failure and considers remedies to tackle them, including scientific issues such as how to incorporate uncertainty into estimations, as well as social and political problems that stem from conflicting goals in exploitation.

This established textbook continues to provide a comprehensive and stimulating introduction to marine ecological concepts and processes. Based on a wealth of international teaching expertise, *An Introduction to Marine Ecology* is written to be the basis for an entire undergraduate course in marine biology or ecology. It covers the trophic, environmental and competitive interactions of marine organisms, and the effects of these on the productivity, dynamics and structure of marine systems. The strength of the book lies in its discussion of core topics which remains at the heart of the majority of courses in the subject, despite an increasing emphasis on more applied aspects. The authors maintain the tradition of clarity and conciseness set by previous editions, and the text is extensively illustrated with colour plates, photographs and diagrams. Examples are drawn

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from all over the world. In this edition, the scientific content of the text has been fully revised and updated. An emphasis has been placed on human impacts, and completely new chapters have been added on fisheries, marine ecosystems, and human interference and conservation. Completely revised and updated with a twofold increase in the number of illustrations. Adopts a more applied approach in keeping with current teaching. New chapters on fisheries, the marine ecosystem, conservation and pollution. Based on a proven and successful course structure.

We developed the first edition of this book because we perceived a need for a compilation on study design with application to studies of the ecology, conservation, and management of wildlife. We felt that the need for coverage of study design in one source was strong, and although a few books and monographs existed on some of the topics that we covered, no single work attempted to synthesize the many facets of wildlife study design. We decided to develop this second edition because our original goal – synthesis of study design – remains strong, and because we each gathered a substantial body of new material with which we could update and expand each chapter. Several of us also used the first edition as the basis for workshops and graduate teaching, which provided us with many valuable suggestions from readers on how to improve the text. In

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particular, Morrison received a detailed review from the graduate students in his “Wildlife Study Design” course at Texas A&M University. We also paid heed to the reviews of the first edition that appeared in the literature.

This is the first guide yet produced to the amphibians and reptiles of New York State, a large and heavily populated state that hosts a surprisingly diverse and interesting community of amphibians and reptiles. This much needed guide to the identification, distribution, natural history and conservation of the amphibians and reptiles of New York State fill a long-empty niche. The book is the first comprehensive presentation of the distributional data gathered for the New York State Amphibian and Reptile Atlas project. With more than 60,000 records compiled from 1990-1999, this extraordinary and up-to-date database provides a rich foundation for the book. This volume provides detailed narratives on the 69 species native to New York State. With a heavy emphasis on conservation biology, the book also includes chapters on threats, legal protections, habitat conservation guidelines, and conservation case studies. Also included are 67 distribution maps and 62 pages of color photographs contributed by more than 30 photographers. As a field guide or a desk reference, *The Amphibians and Reptiles of New York State* is indispensable for anyone interested in the vertebrate animals of the Northeast, as well as students, field researchers and

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natural resource professionals.

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 conservation 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

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their natural resources.

The author presents a basic introduction to the world of genetic engineering.

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This book provides an introductory-level survey of biological nitrogen fixation, covering the role of the process in the global nitrogen cycle as well as its biochemistry, physiology, genetics, ecology, general biology and prospects for its future exploitation.

New edition of the popular textbook, comprehensively updated throughout and now includes a new dedicated website for gas dynamic calculations The thoroughly revised and updated third edition of Fundamentals of Gas Dynamics maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical engineering problems in this gas dynamics flow regime. The conventional one-dimensional flow approach together with the role of temperature-entropy diagrams are highlighted throughout. The authors—noted experts in the field—include a modern computational aid, illustrative charts and tables, and myriad examples of varying degrees of difficulty to aid in the understanding of the material presented. The updated edition of Fundamentals of Gas Dynamics includes new sections on the shock tube, the aerospike nozzle, and the gas dynamic laser. The book contains all equations, tables, and charts necessary to work the problems and exercises in each chapter. This book's accessible but rigorous style: Offers a comprehensively updated edition that includes new problems and examples Covers fundamentals of gas flows targeting those below hypersonic Presents the one-dimensional flow

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approach and highlights the role of temperature-entropy diagrams Contains new sections that examine the shock tube, the aerospike nozzle, the gas dynamic laser, and an expanded coverage of rocket propulsion Explores applications of gas dynamics to aircraft and rocket engines Includes behavioral objectives, summaries, and check tests to aid with learning Written for students in mechanical and aerospace engineering and professionals and researchers in the field, the third edition of Fundamentals of Gas Dynamics has been updated to include recent developments in the field and retains all its learning aids. The calculator for gas dynamics calculations is available at <https://www.oscarbiblarz.com/gascalculator> gas dynamics calculations

In the new edition of this highly successful book, Malcolm Hunter and new co-author James Gibbs offer a thorough introduction to the fascinating and important field of conservation biology, focusing on what can be done to maintain biodiversity through management of ecosystems and populations. Starting with a succinct look at conservation and biodiversity, this book progresses to contend with some of the subject's most complex topics, such as mass extinctions, ecosystem degradation, and over exploitation. Discusses social, political, and economic aspects of conservation biology. Thoroughly revised with over six hundred new references and web links to many of the organizations involved in conservation biology, striking photographs and maps. Artwork from the book is available to instructors online at www.blackwellpublishing.com/hunter and by request on CD-ROM.

“This book is about hope in the face of forces that would degrade our world. This book is about the rich tapestry of life that shares our world now and about how we can maintain it, sometimes in places that we protect and set aside, more often in places where we share the lands and

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waters with a wide range of other species.” For more than 30 years, Fundamentals of Conservation Biology has been a valued mainstay of the literature, serving both to introduce new students to this ever-changing topic, and to provide an essential resource for academics and researchers working in the discipline. In the decade since the publication of the third edition, concerns about humanity’s efforts to conserve the natural world have only grown deeper, as new threats to biodiversity continue to emerge. This fourth edition has taken into account a vast new literature, and boasts nearly a thousand new references as a result. By embracing new theory and practice and documenting many examples of both conservation successes and the hard lessons of real-world “wicked” environmental problems, Fundamentals of Conservation Biology remains a vital resource for biologists, conservationists, ecologists, environmentalists, and others.

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Combines theory and research findings to explain links between conservation biology and

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environmental economics, ethics, law and the social sciences. The author stresses that people and governments can all contribute to protecting biological diversity and promote sustainable development.

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

The distinctive relationships between landscape change, habitat fragmentation, and biodiversity conservation are highlighted in this original and useful guide to the theory and practice of ecological landscape design. Using original, ecologically based landscape design principles, the text underscores current thinking in landscape management and conservation. It offers a blend of theoretical and practical information that is illustrated with case studies drawn from across the globe. Key insights by some of the world's leading experts in landscape ecology and conservation biology make *Managing and Designing Landscapes for Conservation* an essential volume for anyone involved in landscape management, natural resource planning, or biodiversity conservation.

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