

Fundamentals Of Ecology 5th Edition

This new edition is revised throughout and includes new and expanded information on natural resource damage assessment, the latest emerging contaminants and issues, and adds new international coverage, including case studies and rules and regulations. The text details key environmental contaminants, explores their fates in the biosphere, and discusses bioaccumulation and the effects of contaminants at increasing levels of ecological organization. Vignettes written by experts illustrate key themes or highlight especially pertinent examples. This edition offers an instructors' solution manual, PowerPoint slides, and supplemental images. Features: Adds all new discussions of natural resource damage assessment concepts and approaches Includes new vignettes written by leading guest authors Draws on materials from 2,500 cited sources, including 400+ new to this edition Adds numerous new entries to a useful glossary of 800+ terms Includes a new appendix discussing Brazilian environmental laws and regulations added to existing appendices outlining U.S., E.U., Chinese, Australian, and Indian environmental laws Fundamentals of Ecotoxicology: The Science of Pollution, Fifth Edition contains a broad overview of ecotoxicology and provides a basic understanding of the field. Designed as a textbook for use in introductory graduate or upper-level undergraduate courses in ecotoxicology, applied ecology, environmental pollution, and environmental science, it can also be used as a general reference for practicing environmental toxicologists.

Focusing on emerging therapies and those best supported by clinical trials and scientific evidence, Fundamentals of Complementary and Alternative Medicine describes some of the most prevalent and the fastest-growing CAM therapies in use today. Prominent author Dr. Marc Miccozzi provides a complete overview of CAM, creating a solid foundation and context for therapies in current practice. Coverage of systems and therapies includes mind, body, and spirit; traditional Western healing; and traditional ethnomedical systems from around the world. Discussions include homeopathy, massage and manual therapies, chiropractic, a revised chapter on osteopathy, herbal medicine, aromatherapy, naturopathic medicine, and nutrition and hydration. With its wide range of topics, this is the ideal CAM reference for both students and practitioners! An evidence-based approach focuses on treatments best supported by clinical trials and scientific evidence. Coverage of CAM therapies and systems includes those most commonly encountered or growing in popularity, so you carefully evaluate each treatment. Global coverage includes discussions of traditional healing arts from Europe, Asia, Africa, and the Americas. Longevity in the market makes this a classic, trusted text. Expert contributors include well-known writers such as Kevin Ergil, Patch Adams, Joseph Pizzorno, Victor Sierpina, and Marc Miccozzi himself. Suggested readings and references in each chapter list the best resources for further research and study. New, expanded organization covers the foundations of CAM, traditional Western healing, and traditional ethnomedical systems from Asia, Africa, and the Americas, putting CAM in perspective and making it easier to understand CAM origins and contexts. NEW content includes legal and operational issues in integrative medicine, creative and expressive arts therapies, ecological pharmacology, hydration, mind-body thought and practice in America, osteopathy, reflexology, South American healing, traditional medicines of India, and Unani medicine. Revised and updated chapters include aromatherapy, classical acupuncture, energy medicine, biophysical devices (electricity, light, and magnetism), massage and touch therapies, traditional osteopathy, reflexology, vitalism, and yoga. New research studies explain how and why CAM therapies work, and also demonstrate that they do work, in areas such as acupuncture, energy healing, and mind-body therapies. Expanded content on basic sciences includes biophysics, ecology, ethnomedicine, neurobiology, and psychoneuroimmunology, providing the scientific background needed to learn and practice CAM and integrative medicine. Expanded coverage of nutrition and hydration includes practical information on Vitamin D and healthy hydration with fluid and electrolytes.

This text is the successor volume to Biophysical Plant Physiology and Ecology (W.H. Freeman, 1983). The content has been extensively updated based on the growing quantity and quality of plant research, including cell growth and water relations, membrane channels, mechanisms of active transport, and the bioenergetics of chloroplasts and mitochondria. One-third of the figures are new or modified, over 190 new references are incorporated, the appendices on constants and conversion factors have doubled the number of entries, and the solutions to problems are given for the first time. Many other changes have emanated from the best laboratory for any book, the classroom. Covers water relations and ion transport for plant cells; diffusion, chemical potential gradients, solute movement in and out of plant cells. Covers interconnection of various energy forms: light, chlorophyll and accessory photosynthesis pigments, ATP and NADPH. Covers forms in which energy and matter enter and leave a plant; energy budget analysis, water vapor and carbon dioxide, water movement from soil to plant to atmosphere. Introduces the principles of turfgrass management, covering everything from basic turfgrass science to fertilization, mowing, turfgrass diseases, irrigation topdressing, pest management, as well as career paths, and much more.

Fundamentals of Ecotoxicology

Essentials of Ecology and Environmental Science

Plant Virology

Agriscience

An Introduction to the Science of Conservation

Thoroughly revised and up-dated edition of a highly successful textbook.

"An excellent introduction to the science and policy of conservation biology for anyone interested in becoming better informed about today's pressing environmental challenges." Wayne P. Sousa, University of California, Berkeley -- Nutrition textbooks used by universities and colleges in developing countries have very often been written by scholars who live and work in North America or the United Kingdom. And while the research and information they present is sound, the nutrition-related health challenges with which developing countries must grapple differ considerably from those found in highly industrialized Western nations. The primary aim of Community Nutrition for Developing Countries is to provide a book that meets the needs of nutritionists and other health professionals living and working in developing countries. Written by both scholars and practitioners, the volume draws on their wealth of knowledge, experience, and understanding of nutrition in developing countries to provide nutrition professionals with all the information they require. Each chapter addresses a specific nutrition challenge currently faced by developing countries such as food security, food safety, disease prevention, maternal health, and effective nutrition policy. In addition, the volume serves as an invaluable resource for those developing and implementing nutrition education programmes. With an emphasis on nutritional education as a means to prevent disease and effectively manage health disorders, it is the hope of the nearly three dozen contributors to this work that it will enhance the health and well-being of low-income populations throughout the world.

Explore this comprehensive review of what facility management means to owners, operators, occupiers, facility managers and professional advisors The newly revised Fifth Edition of Total Facility Management delivers an accessible and practical text that shows readers how the concept and principles of facility management can be implemented in practice. The book deals with the most common and intractable challenges facing professionals, academics and students in the field and provides practical solutions with the means to implement them. The new edition of the book includes a greater focus on applicable ISO standards in facility management as well as maintaining an international perspective throughout. The book contains easy-to-access advice on how facilities can be better managed from a range of perspectives. The subjects covered provide a comprehensive treatment of facility management. Readers will also benefit from the inclusion of: A thorough introduction to the fundamentals of facility management, including key roles, responsibilities and accountabilities and the core competences of facility management An exploration of facility planning, facility management strategy, outsourcing, procurement, facility management organization, facility maintenance management and business continuity and recovery planning An examination of human resources management, well-being, workplace productivity, performance management health, safety, security and the environment A review of sustainable practices, change management, facility management systems, information management (including building information models and digital twins) and innovative technology The book is the perfect choice for undergraduate and graduate studies in facility management, construction management, project management, surveying and other AEC disciplines. Total Facility Management will also earn a place in the libraries of academics and researchers whose work requires them to understand the theory and practice of facility management.

Essentials of Landscape Ecology

The Ecological World View

Who's Doing the Work?

Animal Physiology

The Ecology of Commerce

An agriscience textbook exploring such topics as environmental technology, plant sciences, integrated pest management, interior and exterior plantscape, animal sciences, food science, and agribusines.

Provides a visionary blueprint for a marketplace where businesses and environmentalists work together, showing companies how to redesign and manufacture products in innovative ways, reeducate customers, and work closely with government toward a profitable, productive, and ecologically sound future. Reprint.

Gregory Bateson was a philosopher, anthropologist, photographer, naturalist, and poet, as well as the husband and collaborator of Margaret Mead. This classic anthology of his major work includes a new Foreword by his daughter, Mary Katherine Bateson. 5 Line drawings.

The most current and visually engaging introduction to general microbiology.

Steps to an Ecology of Mind

Community Nutrition for Developing Countries

Essentials of Ecology

Principles of Environmental Physics

A Primer of Conservation Biology

Filled with beautiful photography and engaging text, Explore the Salish Sea inspires children to explore the unique marine ecosystem that encompasses the coastal waters from Seattle's Puget Sound up to the Strait of Juan de Fuca and the Georgia Strait of British Columbia. Discover the Salish Sea and learn about its vibrant ecosystem in this engaging non-fiction narrative that inspires outdoor exploration. Filled with full-color photography, this book covers wildlife habits, biodiversity, intertidal and subtidal sea life, and highlights what is unique to this Pacific Northwest ecosystem.

This fifth edition of the classic textbook in plant pathology outlines how to recognize, treat, and prevent plant diseases. It provides extensive coverage of abiotic, fungal, viral, bacterial, nematode and other plant diseases and their associated epidemiology. It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations. The latest information on molecular techniques and biological control in plant diseases is covered in coverage. Numerous excellent diagrams and photographs A large variety of disease examples for instructors to choose for their course

Possibly the first textbook to present a practically applicable ecosystems theory. Introduction to Systems Ecology helps readers understand how ecosystems work and how they react to disturbances. It demonstrates—with many examples and illustrations—how to apply the theory to explain observations and to make quantitative calculations and predictions. In this book, Sven Erik Jørgensen takes a first step toward integrating thermodynamics, biochemistry, hierarchical organization, and network theory into a holistic theory of systems ecology. The first part of the book covers the laws of thermodynamics and the basic biochemistry of living organisms, as well as the constraints they impose on ecosystems. To grow and develop, however, ecosystems have to evade these thermodynamic and biochemical constraints, so the second part of the book discusses the seven basic properties that enable ecosystems to grow, develop, and survive: They are open systems, far from thermodynamic equilibrium. They are organized hierarchically. They have a high diversity. They have high buffer capacities toward changes. Their components are organized in cooperative networks, which allows for sophisticated feedback, regulation mechanisms, and higher efficiencies. They contain an enormous amount of information embodied in genomes. They have emerging system properties. This timely textbook also looks at how systems ecology is applied in integrated environmental management, particularly in ecological modeling and engineering and in the assessment of ecosystem health using ecological indicators. Acknowledging that there is still much room for improvement, it will inspire ecologists to develop a stronger and more widely applicable ecosystem theory.

The seminal text Plant Virology is now in its fifth edition. It has been 10 years since the publication of the fourth edition, during which there has been an explosion of conceptual and factual advances. The fifth edition of Plant Virology updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation.

Revamped art, along with fully updated references and increased focus on molecular biology, transgenic resistance, aphid transmission, and new, cutting-edge topics, bring the volume up to date and maintain its value as an essential reference for researchers and students in the field. Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants, including gene silencing Interactions between viruses and insect, fungal, and nematode vectors Contains over 300 full-color illustrations

Plant Physiology

Science of Ecology

How to Say Less So Readers Can Do More

Fundamentals of Weed Science

Essentials of Ecology presents introductory ecology in an accessible, state-of-the-art format designed to cultivate the novice student's understanding of, and fascination with, the natural world. In a concise, engaging style, this text outlines the essential principles of ecology from the theoretical fundamentals to their practical applications. Full color artwork, simple pedagogical features and a wide range of timely examples make this book an ideal introduction to ecology for students at all levels. The second edition of this successful text provides expanded coverage and over 400 references including 100 new examples reflecting the vibrancy of the field. More than a simple update, the new edition also features new artwork <http://www.blackwellpublishing.com/townsend/Images.htm>, an enhanced design, and additional integrated applications to make **Essentials of Ecology** up-to-date and relevant. Outstanding features of the second edition of **Essentials of Ecology** include: * Dedicated website – study resources and web research questions provide students and instructors with an enhanced, interactive experience of the book

www.blackwellpublishing.com/townsend * Key Concepts – summarized at the beginning of each chapter * Unanswered questions – highlighted throughout, emphasizing that in ecology, as in any science, we have much left to learn * History boxes – outlining key landmarks in the development of ecology

* Quantitative boxes – allowing mathematical aspects of ecology to be explained thoroughly without interrupting the flow of the text * Topical ECConcerns boxes – highlighting ethical, social and political questions in ecology * Review questions – included at the end of each chapter

* Reading to Reading Wellness – Jan Burkins and Kim Yaris explore how some traditional scaffolding practices may actually rob students of important learning opportunities and independence. Who's Doing the Work? suggests ways to make small but powerful adjustments to instruction that hold students accountable for their own learning. Educators everywhere are concerned about students whose reading development inexplicably plateaus, as well as those who face challenging texts without applying the strategies they've been taught. When such problems arise, our instinct is to do more. But when we summarize text before reading or guide students when they encounter difficult words, are we leading them to depend on our support? If we want students to use strategies independently, Jan and Kim believe that we must question the ways our scaffolding is getting in the way.

Next generation reading instruction is responsive to students' needs, and it develops readers who can integrate reading strategies without prompting from instructors. In Who's Doing the Work?, Jan and Kim examine how instructional mainstays such as read-aloud, shared reading, guided reading, and independent reading look in classrooms where students do more of the work. Classroom snapshots at the end of each chapter help translate the ideas in the book into practice. Who's Doing the Work? offers a vision for adjusting reading instruction to better align with the goal of creating independent, proficient, and joyful readers.

The scope of ecology. The ecosystem. Energy in ecological systems. Biogeochemical cycles. Limiting factors and the physical environment. Population dynamics. Populations in communities. Development and evolution in the ecosystem. The predicament of humankind: futuristics. Brief description of major natural ecosystem types of the biosphere.

Fundamentals of Ecosystem Science, Second Edition provides a comprehensive introduction to modern ecosystem science covering land, freshwater and marine ecosystems. Ecosystem science is now applied to address a wide range of environmental problems. Written by a group of experts, this updated edition covers major concepts of ecosystem science, biogeochemistry, and energetics. Case studies of important environmental problems offer personal insights into how adopting an ecosystem approach has helped solve important intellectual and practical problems. For those choosing to use the book in a classroom environment, or who want to enrich further their reading experience, teaching and learning assets are available at Elsevier.com. Covers both aquatic (freshwater and marine) and terrestrial ecosystems with updated information Includes a new chapter on microbial biogeochemistry Features vignettes throughout the book with real examples of how an ecosystem approach has led to important change in policy, management, and ecological understanding Demonstrates the application of an ecosystem approach in synthesis chapters and case studies Contains new coverage of human-environment interactions

Fundamentals of Ecosystem Science

Physicochemical and Environmental Plant Physiology

Introduction to Systems Ecology

Elements of Ecology

Fundamentals of Complementary and Alternative Medicine - E-Book

This introductory general ecology text features a strong emphasis on helping students grasp the main concepts of ecology while keeping the presentation more applied than theoretical. An evolutionary perspective forms the foundation of the entire discussion. Evolution is brought to center stage throughout the book, as it is needed to support understanding of major concepts. The discussion begins with a brief introduction to the nature and history of the discipline of ecology, followed by section I, which includes two chapters on natural history—life on land and life in water. The intent is to establish a common foundation of natural history upon which to base the later discussions of ecological concepts. The introduction and natural history chapters can stand on their own and should be readily accessible to most students. They may be assigned as background reading, leaving 17 chapters to cover in a one-semester course. Sections II through VI build a hierarchical perspective: section II concerns the ecology of individuals; section III focuses on population ecology; section IV presents the ecology of interactions; section V summarizes community and ecosystem ecology; and finally, section VI discusses large-scale ecology and includes chapters on landscape, geographic, and global ecology. These topics were first introduced in section I within a natural history context. In summary, the book begins with the natural history of the planet, considers portions of the whole in the middle chapters, and ends with another perspective of the entire planet in the concluding chapter.

As well as emphasising the links to evolution, 'Ecology' covers all the levels of the ecological hierarchy at which the subject is studied. It focuses on their integration to ensure that students are able to grasp how events in nature are interconnected.

Provides up-to-date coverage of Conservation Biology, including sustainable development, global warming, and strategies to save species on the verge of extinction.

An indispensable undergraduate textbook that covers the critical topic of food microbiology The second edition of Food Microbiology: an Introduction offers authoritative coverage as well as an appealing design for today's instructors and students. This impressive second edition by Thomas Montville and Karl Matthews builds upon the earlier edition's success covering the complex field of food microbiology while also motivating students to venture beyond memorization to a broader understanding of the concepts. Following up on the critical success of the first edition, this textbook presents a classroom-friendly adaptation that has been student tested for level and depth of coverage. This new edition offers a straightforward approach to learning the core principles without sacrificing depth, clarity, or rigor. It introduces the genetics and mechanisms important to specific issues in food microbiology. This textbook encourages today's students to acquire the understanding and skills necessary for practicing food safety in the future. The textbook has been completely updated based on student input and on new discoveries in food microbiology. Organized into five major sections, which can be taught in any order, this new edition adds important new details, including expanded coverage of food fermentations. Additionally, this student-friendly textbook employs attractive instructive material such as text boxes, case studies, chapter summaries, questions for critical thought, and a glossary. The first section, Basics of Food Microbiology, cements foundational material, while the next four sections detail specific food-borne organisms and strategies for controlling them. Descriptions of outbreaks of food-related infections inject life into each pathogen covered.

Collected Essays in Anthropology, Psychiatry, Evolution, and Epistemology

Eugene Odum

Total Facility Management

Food Microbiology

Explore the Salish Sea

Essentials of Ecology presents introductory ecology in an accessible, state-of-the-art format designed to cultivate the novice student's understanding of, and fascination with, the natural world. This new edition has been updated throughout, with new, full-color illustrations, and comes with an accompanying website with downloadable illustrations, multiple-choice questions, and interactive models.

Human activity during the Anthropocene has transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces. Landscape ecology has emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems: from the effects of habitat or resource distributions on the individual movements, gene flow, and population dynamics of plants and animals; to the human alteration of landscapes of affecting the structure of biological communities and the functioning of entire ecosystems; to the sustainable management of natural resources and the ecosystem goods and services upon which society depends. This novel and comprehensive text presents the principles, theory, methods, and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a variety of systems, including freshwater and marine "scapes".

Fundamentals of Weed Science provides an introduction to the basic principles of weed science for undergraduate courses. It discusses several aspects of weed biology and control, and traces the history of herbicide development. The book begins with an introduction to weeds, covering their definition, characteristics, harmful aspects, and the cost of weed control. This is followed chapters on weed classification, the uses of weeds, weed biology, weed ecology, allelopathy, the significance of plant competition, weed management and control methods, and biological weed control. Later chapters deal with herbicides—the most important weed control tools and the ones with the greatest potential for untoward effects. Students of weed science must understand herbicides and the factors governing their use as well as the potential for misuse. These chapters discuss chemical weed control, the properties and uses of herbicides, factors of resistance, herbicide performance, herbicide application, herbicide formulation, ecological impact of herbicides, pesticide registration and legislation, weed management systems, and the future of weed science.

Filled with many examples of topic issues and current events, this book develops a basic understanding of how the natural world works and of how humans interact with the planet's natural ecosystems. It covers the history of ecology and describes the general approaches of the scientific method, then takes a look at basic principles of population dynamics and applies them to everyday practical problems.

Plant Pathology

A Nature Guide for Kids

Concepts and Applications

Fundamentals of Turfgrass Management

Ecology

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 natural forces that move 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 land in 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 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 with photographs, all in colour.

Master the study of ecology in the twenty-first century with FUNDAMENTALS OF ECOLOGY! Designed to educate a wide audience about ecological science, this biology text shows you the application of ecological principles in the real world and how to use what you learn to solve problems in fields such as resource management, conservation biology, ecological toxicology, ecosystem health, land use diagrams, models, photographs, and a book-specific website are just a few of the tools found throughout the text that will help you succeed.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Known for its evolution theme and strong coverage of the relevance of ecology to everyday life and the human impact on ecosystems, the thoroughly revised Eighth Edition features expanded quantitative exercises, a restructured chapter introducing the subject, and a new chapter on species interactions. To emphasize the dynamic and experimental nature of ecology, each chapter draws upon current research in the various fields of ecology while providing accessible examples that help you understand species natural history, specific ecosystems, the process of science, and ecological patterns at both an evolutionary and a community level. A variety of Quantifying Ecology boxes walk through step-by-step examples of equations and statistical techniques.

"Comprehensive, contemporary, and engaging, Animal Physiology provides evolutionary and ecological context to help students make connections across all levels of physiological scale!"-

The Science of Pollution, Fifth Edition

Microbiology

Ecosystem: Ecologist and Environmentalist

Fundamentals of Ecology

Concepts & Applications

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

Students of nature around the world revere Eugene Odum as a founder and pioneer of ecosystem ecology. In this biography of Odum, Betty Jean Craige depicts the intellectual growth, creativity, and vision of the scientist who made the ecosystem concept central to his discipline and translated the principles of ecosystem ecology into lessons in preserving the natural environment. Placing Odum's achievements in historical context, Craige traces his life from his childhood through his education, his collaboration with his brother Howard T. Odum in developing methods to study ecosystems, his contributions to the field of radiation ecology, his emergence as an internationally distinguished educator of ecosystem ecology, and his environmental activism. Craige also describes Odum's role in the creation of the Savannah River Ecology Laboratory, the Marine Institute on Sapelo Island, and the Institute of Ecology at the University of Georgia, where he became identified with the statement "The ecosystem is greater than the sum of its parts." Odum's textbook Fundamentals of Ecology is a classic, published in numerous editions and translations worldwide. Odum achieved membership in the National Academy of Sciences, shared with his brother the prestigious Crafoord Prize for Ecology, accepted six honorary doctorates, and received numerous awards for environmental activities.

During the past decade the biological sciences have experienced a period of unprecedented progress, and nowhere is the excitement of this new era more apparent than in the field of plant physiology. Innovations such as the patch clamp are unlocking the mysteries of membrane transport. Recombinant DNA techniques are providing new tools for understanding how light and hormones regulate gene expression and development.

A leading text for undergraduate- and graduate-level courses, this book introduces widely used forms of remote sensing imagery and their applications in plant sciences, hydrology, earth sciences, and land use analysis. The text provides comprehensive coverage of principal topics and serves as a framework for organizing the vast amount of remote sensing information available on the Web. Including case studies and review questions, the book's four sections and 21 chapters are carefully designed as independent units that instructors can select from as needed for their courses. Illustrations include 29 color plates and over 400 black-and-white figures. New to This Edition"Reflects significant technological and methodological advances."Chapter on aerial photography now emphasizes digital rather than analog systems."Updated discussions of accuracy assessment, multitemporal change detection, and digital preprocessing."Links to recommended online videos and tutorials.

Fundamentals of Geomorphology

Protecting Life on Earth

Concepts of Biology

Introduction to Remote Sensing, Fifth Edition

Essentials of Ecology, 4th Edition