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GR7YAD - ROWAN PONCE

Our day-to-day experiences over the past decade have taught us that there must be limits to our tremendous appetite for energy, natural resources, and consumer goods. Even utility and oil companies now promote conservation in the face of demands for dwindling energy reserves. And for years some biologists have warned us of the direct correlation between scarcity and population growth. These scientists see an appalling future riding the tidal wave of a worldwide growth of population and technology. A calm but unflinching realist, Catton suggests that we cannot stop this wave - for we have already overshot the Earth's capacity to support so huge a load. He contradicts those scientists, engineers, and technocrats who continue to write optimistically about energy alternatives. Catton asserts that the technological panaceas proposed by those who would harvest from the seas, harness the winds, and farm the deserts are ignoring the fundamental premise that "the principals of ecology apply to all living

things." These principles tell us that, within a finite system, economic expansion is not irreversible and population growth cannot continue indefinitely. If we disregard these facts, our sagging American Dream will soon shatter completely.

The second edition of *The Diversity of Fishes* represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of *The Diversity of*

Fishes was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and provides:

- Related videos selected by the authors
- Updates to the book since publication
- Instructor resources
- A chance to send in feedback

Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate-level text and as a sourcebook for professional scientists.

This textbook helped to define the field of Behavioural Ecology. In this fourth edition the text has been completely revised, with new chapters and many new illustrations and full colour photographs. The theme, once again, is the influence of natural selection on behaviour – an animal's struggle to survive and reproduce by exploiting and competing for resources, avoiding predators, selecting mates and caring for offspring, – and how animal societies reflect both cooperation and conflict among individuals. Stuart A. West has joined as a co-author bringing his own perspectives and work on microbial systems into the book. Written in the same engaging and lucid style as the previous editions, the authors explain the latest theoretical ideas using examples from micro-organisms, invertebrates and vertebrates. There are boxed sections for some topics and marginal notes help guide the reader. The book is essential reading for students of behavioural ecology, ani-

mal behaviour and evolutionary biology. Key Features: Long-awaited new edition of a field-defining textbook New chapters, illustrations and colour photographs New co-author Focuses on the influence of natural selection on behavior, and how animal societies reflect both cooperation and conflict among individuals “The long-awaited update to a classic in this field is now here, presenting new directions in thinking and addressing burning questions. Richly informed by progress in many other disciplines, such as sensory physiology, genetics and evolutionary theory, it marks the emergence of behavioural ecology as a fully fledged discipline..... This is a marvellous book, written in a lucid style. A must-read for those in the field, it is also a cornucopia of new thinking for anyone interested in evolution and behaviour.” Manfred Milinski, *Nature*, 2012

Provides a comprehensive synthesis of a fundamental phenomenon, the species-area relationship, addressing theory, evidence and application.

This best-selling majors ecology book continues to present ecology as a series of problems for readers to critically analyze. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style. Reflecting the way ecologists actually practice, the book emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. Throughout the book, Krebs thoroughly explains the application of mathematical concepts in ecology while reinforcing these concepts with research references, examples, and interesting end-of-chapter review questions. Thoroughly updated with

new examples and references, the book now features a new full-color design and is accompanied by an art CD-ROM for instructors. The field package also includes The Ecology Action Guide, a guide that encourages readers to be environmentally responsible citizens, and a subscription to The Ecology Place (www.ecology-place.com), a web site and CD-ROM that enables users to become virtual field ecologists by performing experiments such as estimating the number of mice on an imaginary island or restoring prairie land in Iowa. For college instructors and students.

A definitive guide to the depth and breadth of the ecological sciences, revised and updated The revised and updated fifth edition of Ecology: From Individuals to Ecosystems - now in full colour - offers students and practitioners a review of the ecological sciences. The previous editions of this book earned the authors the prestigious 'Exceptional Life-time Achievement Award' of the British Ecological Society - the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology. In the first edition, 34 years ago, it seemed acceptable for ecologists to hold a comfortable, objective, not to say aloof position, from which the ecological communities around us were simply material for which we sought a scientific understanding. Now, we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems. This fifth edition addresses this challenge, with several chapters devoted entirely to applied topics, and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters. Nonetheless, the authors remain wedded to the belief that environmental action can only ever be

as sound as the ecological principles on which it is based. Hence, while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead, the book remains, in its essence, an exposition of the science of ecology. This new edition incorporates the results from more than a thousand recent studies into a fully up-to-date text. Written for students of ecology, researchers and practitioners, the fifth edition of Ecology: From Individuals to Ecosystems is an essential reference to all aspects of ecology and addresses environmental problems of the future.

Integrates process and content of core areas of ecology using an engaging narrative, fascinating case studies, and stunning images throughout.

How did rodent outbreaks in Germany help to end World War I? What caused the destructive outbreak of rodents in Oregon and California in the late 1950s, the large population outbreak of lemmings in Scandinavia in 2010, and the great abundance of field mice in Scotland in the spring of 2011? Population fluctuations, or outbreaks, of rodents constitute one of the classic problems of animal ecology, and in Population Fluctuations in Rodents, Charles J. Krebs sifts through the last eighty years of research to draw out exactly what we know about rodent outbreaks and what should be the agenda for future research. Krebs has synthesized the research in this area, focusing mainly on the voles and lemmings of the Northern Hemisphere—his primary area of expertise—but also referring to the literature on rats and mice. He covers the patterns of changes in reproduction and mortality and the mechanisms that cause these changes—including predation, disease,

food shortage, and social behavior—and discusses how landscapes can affect population changes, methodically presenting the hypotheses related to each topic before determining whether or not the data supports them. He ends on an expansive note, by turning his gaze outward and discussing how the research on rodent populations can apply to other terrestrial mammals. Geared toward advanced undergraduate students, graduate students, and practicing ecologists interested in rodent population studies, this book will also appeal to researchers seeking to manage rodent populations and to understand outbreaks in both natural and urban settings—or, conversely, to protect endangered species.

Employing a non-intimidating writing style that emphasizes concepts rather than formulas, this uniquely welcoming text shows consumers of research how to read, understand, and critically evaluate the statistical information and research results contained in technical research reports. Some key topics covered in this thoroughly revised text include: descriptive statistics, correlation, reliability and validity, estimation, hypothesis testing, t-tests, ANOVA, ANCOVA, regression, multivariate analysis, factor analysis, and structural equation modeling (SEM). A number of mini-topics related to research and statistics are also discussed, such as the geometric mean, Tau-b correlation, Guttman split-half reliability, sensitivity, specificity, and the Sobel test. Additionally, the sixth edition also includes over 488 new excerpts (tables, figures, passages of text) taken from current research reports. Written specifically for students in non-thesis Master's Programs but also perfectly suitable for students in upper-level undergraduate statistics courses, doctoral students who must conduct disser-

tation research, and independent researchers who want a better handle on how to decipher and critique statistically-based research reports. Thoroughly updated and revised to reflect advances in the field, *Reading Statistics and Research, Sixth Edition* gives consumers of research exactly what they are seeking in this caliber of text, that being the knowledge necessary to better understand research and statistics, and the confidence and ability to ultimately decipher and critique research reports on their own. This accessible and timely book provides a comprehensive overview of how to measure biodiversity. The book highlights new developments, including innovative approaches to measuring taxonomic distinctness and estimating species richness, and evaluates these alongside traditional methods such as species abundance distributions, and diversity and evenness statistics. Helps the reader quantify and interpret patterns of ecological diversity, focusing on the measurement and estimation of species richness and abundance. Explores the concept of ecological diversity, bringing new perspectives to a field beset by contradictory views and advice. Discussion spans issues such as the meaning of community in the context of ecological diversity, scales of diversity and distribution of diversity among taxa. Highlights advances in measurement paying particular attention to new techniques such as species richness estimation, application of measures of diversity to conservation and environmental management and addressing sampling issues. Includes worked examples of key methods in helping people to understand the techniques and use available computer packages more effectively.

This is an up-to-date study of patterns and processes involving two or more species. The book strikes a balance between plant

and animal species and among studies of marine, freshwater and terrestrial communities.

"Society for Ecological Restoration"--Cover.

Additional resources for this book can be found at: <http://www.wiley.com/go/vandermaarefranklin/vegetationecology> www.wiley.com/go/vandermaarefranklin/vegetationecology/a. Vegetation Ecology, 2nd Edition is a comprehensive, integrated account of plant communities and their environments. Written by leading experts in their field from four continents, this second edition of this book: covers the composition, structure, ecology, dynamics, diversity, biotic interactions and distribution of plant communities, with an emphasis on functional adaptations; reviews modern developments in vegetation ecology in a historical perspective; presents a coherent view on vegetation ecology while integrating population ecology, dispersal biology, soil biology, ecosystem ecology and global change studies; tackles applied aspects of vegetation ecology, including management of communities and invasive species; includes new chapters addressing the classification and mapping of vegetation, and the significance of plant functional types. Vegetation Ecology, 2nd Edition is aimed at advanced undergraduates, graduates and researchers and teachers in plant ecology, geography, forestry and nature conservation. Vegetation Ecology takes an integrated, multidisciplinary approach and will be welcomed as an essential reference for plant ecologists the world over.

Cactus plants are precious natural resources that provide nutritious food for people and livestock, especially in dryland areas. Originally published in 1995, this extensively revised edition pro-

vides fresh insights into the cactus plant's genetic resources, physiological traits, soil preferences and vulnerability to pests. It provides invaluable guidance on managing the resource to support food security and offers tips on how to exploit the plant's culinary qualities.

Hat die Natur Eigenwert, oder ist sie nur für den Menschen da? Ist die traditionelle anthropozentrische Ethik angesichts ökologischer Krisenerfahrungen heute noch zu rechtfertigen? Diese Untersuchung ordnet und beurteilt die noch unübersichtliche Naturschutzdiskussion in einer einfachen, knappen und bildreichen Sprache. Sie erstellt eine "Landkarte" der dreizehn wesentlichen Naturschutzargumente und verteidigt den Eigenwert der leidensfähigen Natur.

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.

Provides simple explanations of the important concepts in population and community ecology. Provides R code throughout, to illustrate model development and analysis, as well as appendix introducing the R language. Interweaves ecological content and code so that either stands alone. Supplemental web site for additional code.

The third edition of this successful textbook looks again at the influence of natural selection on behavior - an animal's strug-

gleto survive by exploiting resources, avoiding predators, and maximizing reproductive success. In this edition, new examples are introduced throughout, many illustrated with full color photographs. In addition, important new topics are added including the latest techniques of comparative analysis, the theory and application of DNA fingerprinting techniques, extensive new discussion on brood parasite/host coevolution, the latest ideas on sexual selection in relation to disease resistance, and a new section on the intentionality of communication. Written in the lucid style for which these two authors are renowned, the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text. This book will be essential reading for students taking courses in behavioral ecology. The leading introductory text from the two most prominent workers in the field. Second colour in the text. New section of four colour plates. Boxed sections to illustrate difficult and important points. New larger format with marginal notes to guide the reader through the text. Selected further reading at the end of each chapter.

What is ecology?; Introduction to the science of ecology; The problem of distribution: populations; Methods for analyzing distributions; Factors limiting distributions: dispersal; Factors limiting distributions: behavior, interrelations with other organisms, temperature, moisture, other physical and chemical; The problem of abundance: populations; Population parameters; Demographic techniques; Population growth; Species interactions: competition, predation, herbivory; Natural regulation of population size; Some examples of population studies; Some examples of population studies; Applied problems: 1. the optimum-yield problem, 2. bio-

logical control; Distribution and abundance at the community level; Community parameters; The nature of the community; Community structure; Community change; Species diversity; Community organization; Community metabolism: 1. primary production, 2. secondary production; Nutrient cycles.

Dr. Timothy Schowalter has succeeded in creating a unique, updated treatment of insect ecology. This revised and expanded text looks at how insects adapt to environmental conditions while maintaining the ability to substantially alter their environment. It covers a range of topics- from individual insects that respond to local changes in the environment and affect resource distribution, to entire insect communities that have the capacity to modify ecosystem conditions. *Insect Ecology, Second Edition*, synthesizes the latest research in the field and has been produced in full color throughout. It is ideal for students in both entomology and ecology-focused programs. **NEW TO THIS EDITION:** * New topics such as elemental defense by plants, chaotic models, molecular methods to measure dispersion, food web relationships, and more * Expanded sections on plant defenses, insect learning, evolutionary tradeoffs, conservation biology and more * Includes more than 350 new references * More than 40 new full-color figures A sweeping overview of key advances in the field of ecology over the latter half of the twentieth century. For three decades, *Foundations of Ecology*, edited by Leslie A. Real and James H. Brown, has served as an essential primer for graduate students and practicing ecologists, giving them access to the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists. Ecology has continued to evolve, and ecolo-

gists Thomas E. Miller and Joseph Travis offer here a freshly edited guide for a new generation of researchers. The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline—from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding, to theoretical advances. *Foundations of Ecology II* includes facsimiles of forty-six papers from this period alongside expert commentaries that discuss a total of fifty-three key studies, addressing topics of diversity, predation, complexity, competition, coexistence, extinction, productivity, resources, distribution, and abundance. The result is more than a catalog of historic firsts; this book offers diverse perspectives on the foundational papers that led to today's ecological work.

Robert Frost was a practicing farmer, a skilled naturalist and one of America's best-loved poets. His body of work provides a vivid and compelling narrative of New England's changing environment—though it can be hard to discern when its parts are scattered through hundreds of different poems, voices and moods. This book pieces together Frost's environmental commentary, examining his poems thematically and in a logical order. In them, homesteads are carved out of the forest, families make their living from an obdurate land, property is abandoned when it fails to sell, and plants and animals reclaim deserted farms. Frost be-moaned the loss of people from the land but also celebrated the flora and fauna that thrived in fallow fields and empty barns.

This best-selling majors-level book, by Charles Krebs, approaches ecology as a series of problems, which are best understood by evaluating empirical evidence through data analysis and application of quantitative reasoning. No other book presents analytical,

quantitative, and statistical ecological information in an equally accessible style for students. Reflecting the way ecologists actually practice, the new edition emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. *Introduction to the Science of Ecology, Evolution and Ecology, Behavioral Ecology, Analyzing Geographic Distributions, Factors That Limit Distributions I: Biotic, Factors That Limit Distributions II: Abiotic, Distribution and Abundance, Population Parameters and Demographic Techniques, Population Growth, Species Interactions I: Competition, Species Interactions II: Predation, Species Interactions III: Herbivory and Mutualism, Species Interactions IV: Disease and Parasitism, Regulation of Population Size, Applied Problems I: Harvesting Populations, Applied Problems II: Pest Control, Applied Problems III: Conservation Biology, Community Structure, Community Dynamics I: Biodiversity, Community Dynamics II: Predation and Competition, Community Dynamics III: Nonequilibrium Communities, Ecosystem Metabolism I: Primary Production, Ecosystem Metabolism II: Secondary Production, Ecosystem Metabolism III: Nutrient Cycles, Ecosystem Dynamics under Changing Climates, Ecosystem Health: Human Impacts.* Intended for those interested in learning the basics of ecology

The need to understand and address large-scale environmental problems that are difficult to study in controlled environments—issues ranging from climate change to overfishing to invasive species—is driving the field of ecology in new and important directions. *Observation and Ecology* documents that transformation, exploring how scientists and researchers are expanding their

methodological toolbox to incorporate an array of new and reexamined observational approaches—from traditional ecological knowledge to animal-borne sensors to genomic and remote-sensing technologies—to track, study, and understand current environmental problems and their implications. The authors paint a clear picture of what observational approaches to ecology are and where they fit in the context of ecological science. They consider the full range of observational abilities we have available to us and explore the challenges and practical difficulties of using a primarily observational approach to achieve scientific understanding. They also show how observations can be a bridge from ecological science to education, environmental policy, and resource management. Observations in ecology can play a key role in understanding our changing planet and the consequences of human activities on ecological processes. This book will serve as an important resource for future scientists and conservation leaders who are seeking a more holistic and applicable approach to ecological science.

Ecology Is A Fascinating Subject. This Is A Book To Introduce You To It And The Problems Ecologists Try To Analyze. Above All It Is An Attempt To Present The Subject In A Direct, Simple Form Without Including The Detail That Is Necessary In A More Conventional Textbook And Without Burdening The Subject With Abstruse Definitions Or Voluminous Statistics. So Do Not View This Book As A Text But As Supplemental Reading Designed For An Introductory Biology Course Or For A First Course In Ecology.

This book introduces experimental design and data analysis / interpretation as well as field monitoring skills for both plants and animals. Clearly structured throughout and written in a student-

friendly manner, the main emphasis of the book concentrates on the techniques required to design a field based ecological survey and shows how to execute an appropriate sampling regime. The book evaluates appropriate methods, including the problems associated with various techniques and their inherent flaws (e.g. low sample sizes, large amount of field or laboratory work, high cost etc). This provides a resource base outlining details from the planning stage, into the field, guiding through sampling and finally through organism identification in the laboratory and computer based data analysis and interpretation. The text is divided into six distinct chapters. The first chapter covers planning, including health and safety together with information on a variety of statistical techniques for examining and analysing data. Following a chapter dealing with site characterisation and general aspects of species identification, subsequent chapters describe the techniques used to survey and census particular groups of organisms. The final chapter covers interpreting and presenting data and writing up the research. The emphasis here is on appropriate wording of interpretation and structure and content of the report. 4th edition of this classic Ecology text Computational methods have largely been replaced by descriptions of the available software Includes procedure information for R software and other freely available software systems Now includes web references for equipment, software and detailed methodologies

It is a widely held belief that a climax vegetation of closed forest systems covered the lowlands of Central and Western Europe before man intervened in prehistoric times to develop agriculture. If this intervention had not taken place, the forest would still be

there, and if left the grassland vegetation and fields now present would revert to a natural closed forest state, although with a reduced number of wild species. This book, which is an updated and expanded version of the author's 1997 thesis (presented to the Wageningen University, Netherlands), challenges the traditional view, using examples from history, pollen analyses and studies on the ecology of tree and shrub species such as oak and hazel. It tests the hypothesis that the climax vegetation is a closed canopy forest, against the alternative hypothesis that species composition and vegetational succession were governed by large herbivores, and that the Central and Western European lowlands were covered by a park-like landscape consisting of grasslands, scrub, solitary trees and groves bordered by a mantle and fringe vegetation. Comparative information from the eastern USA is also included throughout the book (this was not present in the thesis), because the forests there are commonly regarded as being analogous to the primeval vegetation in Europe. The book is arranged in 7 chapters: (1) General introduction and formulation of the problem; (2) Succession, the climax forest and the role of large herbivores; (3) Palynology, the forest as climax in prehistoric times and the effects of humans; (4) The use of the wilderness from the Middle Ages up to 1900; (5) Spontaneous succession in forest reserves in the lowlands of Western and Central Europe - including examples from France, Germany, Austria, Slovenia, Sweden, Poland; (6) Establishment of trees and shrubs in relation to light and grazing; and (7) Final synthesis and conclusions. Twelve appendices are included giving further information, and there are 67 pages of references and a subject index.

This book brings together a set of approaches to the study of indi-

vidual-species ecology based on the analysis of spatial variations of abundance. Distribution ecology assumes that ecological phenomena can be understood when analyzing the extrinsic (environmental) or intrinsic (physiological constraints, population mechanisms) that correlate with this spatial variation. Ecological processes depend on geographical scales, so their analysis requires following environmental heterogeneity. At small scales, the effects of biotic factors of ecosystems are strong, while at large scales, abiotic factors such as climate, govern ecological functioning. Responses of organisms also depend on scales: at small scales, adaptations dominate, i.e. the ability of organisms to respond adaptively using habitat decision rules that maximize their fitness; at large scales, limiting traits dominate, i.e., tolerance ranges to environmental conditions.

Individual-based models are an exciting and widely used new tool for ecology. These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology arises from how individuals interact with each other and their environment. This book provides the first in-depth treatment of individual-based modeling and its use to develop theoretical understanding of how ecological systems work, an approach the authors call "individual-based ecology." Grimm and Railsback start with a general primer on modeling: how to design models that are as simple as possible while still allowing specific problems to be solved, and how to move efficiently through a cycle of pattern-oriented model design, implementation, and analysis. Next, they address the problems of theory and conceptual framework for individual-based ecology: What is "theory"? That is, how do we develop reusable models of how system dynamics arise from

characteristics of individuals? What conceptual framework do we use when the classical differential equation framework no longer applies? An extensive review illustrates the ecological problems that have been addressed with individual-based models. The authors then identify how the mechanics of building and using individual-based models differ from those of traditional science, and provide guidance on formulating, programming, and analyzing models. This book will be helpful to ecologists interested in modeling, and to other scientists interested in agent-based modeling. Why do organisms become extremely abundant one year and then seem to disappear a few years later? Why do population outbreaks in particular species happen more or less regularly in certain locations, but only irregularly (or never at all) in other locations? Complex population dynamics have fascinated biologists for decades. By bringing together mathematical models, statistical analyses, and field experiments, this book offers a comprehensive new synthesis of the theory of population oscillations. Peter Turchin first reviews the conceptual tools that ecologists use to investigate population oscillations, introducing population modeling and the statistical analysis of time series data. He then provides an in-depth discussion of several case studies—including the larch budmoth, southern pine beetle, red grouse, voles and lemmings, snowshoe hare, and ungulates—to develop a new analysis of the mechanisms that drive population oscillations in nature. Through such work, the author argues, ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science. *Complex Population Dynamics* integrates theoretical and empirical studies into a major

new synthesis of current knowledge about population dynamics. It is also a pioneering work that sets the course for ecology's future as a predictive science.

This up-to-date review examines key areas of animal behaviour, including communication, cognition, conflict, cooperation, sexual selection and behavioural variation. Various tests are covered, including recent empirical examples.

Global temperatures and seawater levels rise; the world's smallest porpoise species looms at the edge of extinction; and a tiny emerald beetle from Japan flourishes in North America—but why does it matter? Who cares? With this concise, accessible, and up-to-date book, Charles J. Krebs answers critics and enlightens students and environmental advocates alike, revealing not why phenomena like these deserve our attention, but why they demand it. Highlighting key principles in ecology—from species extinction to the sun's role in powering ecosystems—each chapter introduces a general question, illustrates that question with real-world examples, and links it to pressing ecological issues in which humans play a central role, such as the spread of invasive species, climate change, overfishing, and biodiversity conservation. While other introductions to ecology are rooted in complex theory, math, or practice and relegate discussions of human environmental impacts and their societal implications to sidebars and appendices, *Why Ecology Matters* interweaves these important discussions throughout. It is a book rooted in our contemporary world, delving into ecological issues that are perennial, timeless, but could not be more timely.