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Ecology - Michael Begon 2020-11-17

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.

Desk Encyclopedia of Microbiology - Moselio Schaechter 2010-04-19

The Desk Encyclopedia of Microbiology, Second Edition is a single-volume comprehensive guide to microbiology for the advanced reader. Derived from the six volume e-only Encyclopedia of Microbiology, Third Edition, it bridges the gap between introductory texts and specialized reviews. Covering topics ranging from the basic science of microbiology to the current "hot" topics in the field, it will be invaluable for obtaining background information on a broad range of microbiological topics, preparing lectures and preparing grant applications and reports. * The most comprehensive single-volume source providing an overview of microbiology to non-specialists * Bridges the gap

between introductory texts and specialized reviews. * Provides concise and general overviews of important topics within the field making it a helpful resource when preparing for lectures, writing reports, or drafting grant applications

The Fragment Molecular Orbital Method - Dmitri Fedorov 2009-05-14

Answering the need to facilitate quantum-chemical calculations of systems with thousands of atoms, Kazuo Kitaura and his coworkers developed the Fragment Molecular Orbital (FMO) method in 1999. Today, the FMO method can be applied to the study of whole proteins and protein-ligand interactions, and is extremely effective in calculating the properties

Mathematical Statistics and Data Analysis - John A. Rice 2006-04-28

This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Book Catalog of the Library and Information Services Division: Subject index - Environmental Science Information Center. Library and Information Services Division 1977

Applications of Robotics in Industry Using Advanced Mechanisms -

Janmenjoy Nayak 2019-09-03

This book shares important findings on the application of robotics in industry using advanced mechanisms, including software and hardware. It presents a collection of recent trends and research on various advanced computing

paradigms such as soft computing, robotics, smart automation, power control, and uncertainty analysis. The book constitutes the proceedings of the 1st International Conference on Application of Robotics in Industry using Advanced Mechanisms (ARIAM2019), which offered a platform for sharing original research findings, presenting innovative ideas and applications, and comparing notes on various aspects of robotics. The contributions highlight the latest research and industrial applications of robotics, and discuss approaches to improving the smooth functioning of industries. Moreover, they focus on designing solutions for complex engineering problems and designing system components or processes to meet specific needs, with due considerations for public health and safety, including cultural, societal, and environmental considerations. Taken together, they offer a valuable resource for researchers, scientists, engineers, professionals and students alike.

Management of Water Treatment Plant Residuals - 1996

This manual provides general information and insight into the development of a comprehensive water treatment residuals management plan for potable water treatment facilities. Readers gain an understanding of how to characterize the form, quantity, and quality of the residuals; determine the appropriate regulatory requirements; identify feasible disposal options; select appropriate residuals processing/treatment technologies; and develop a residuals management strategy that meets both the economic and noneconomic goals established for a water treatment facility. Addressed primarily are those residuals produced by coagulation/filtration plants, precipitative softening plants, membrane separation, ion exchange (IX), and granular activated carbon (GAC) absorption. In addition, available treatment technologies for gaseous residuals including stripping, odor control, gaseous chemical leak treatment, and ozonation are described.

Introduction to Mathematical Statistics and Its Applications - Richard J. Larsen 2013-08-28

Noted for its integration of real-world data and case studies, this text offers sound coverage of the theoretical aspects of mathematical statistics. The authors demonstrate how and when to use statistical methods, while reinforcing the calculus that students have mastered in previous courses. Throughout the 5th Edition, the authors have added and updated examples and case studies, while also refining existing features that show a clear path from theory to practice. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Book catalog of the Library and Information Services Division -

Environmental Science Information Center. Library and Information Services Division 1977

Forensic Anthropology and Medicine - Aurore Schmitt 2007-11-09

Recent political, religious, ethnic, and racial conflicts, as well as mass disasters, have significantly helped to bring to light the almost unknown discipline of forensic anthropology. This science has become particularly useful to forensic pathologists because it aids in solving various puzzles, such as identifying victims and documenting crimes. On topics such as mass disasters and crimes against humanity, teamwork between forensic pathologists and forensic anthropologists has significantly increased over the few last years. This relationship has also improved the study of routine cases in local medicolegal institutes. When human remains are badly decomposed, partially skeletonized, and/or burned, it is particularly useful for the forensic pathologist to be assisted

by a forensic anthropologist. It is not a one-way situation: when the forensic anthropologist deals with skeletonized bodies that have some kind of soft tissue, the advice of a forensic pathologist would be welcome. Forensic anthropology is a subspecialty/field of physical anthropology. Most of the background on skeletal biology was gathered on the basis of skeletal remains from past populations. Physical anthropologists then developed an indisputable “know-how”; nevertheless, one must keep in mind that looking for a missing person or checking an assumed identity is quite a different matter. Pieces of information needed by forensic anthropologists require a higher level of reliability and accuracy than those granted in a general archaeological context. To achieve a positive identification, findings have to match with evidence, particularly when genetic identification is not possible.

Business Periodicals Index - 1989

Biological Science - Biological Sciences Curriculum Study 1995

The Environment Index - 1987

Smart Water Utilities - Pernille Ingildsen 2016-05-15

Today there is increasing pressure on the water infrastructure and although unsustainable water extraction and wastewater handling can continue for a while, at some point water needs to be managed in a way that is sustainable in the long-term. We need to handle water utilities “smarter”. New and effective tools and technologies are becoming available at an affordable cost and these technologies are steadily changing water infrastructure options. The quality and robustness of sensors are increasing rapidly and their reliability makes the automatic handling of critical processes viable. Online and real-time control means safer and more effective operation. The combination of better sensors and new water treatment technologies is a strong enabler for

decentralised and diversified water treatment. Plants can be run with a minimum of personnel attendance. In the future, thousands of sensors in the water utility cycle will handle all the complexity in an effective way. *Smart Water Utilities: Complexity Made Simple* provides a framework for Smart Water Utilities based on an M-A-D (Measurement-Analysis-Decision). This enables the organisation and implementation of “Smart” in a water utility by providing an overview of supporting technologies and methods. The book presents an introduction to methods and tools, providing a perspective of what can and could be achieved. It provides a toolbox for all water challenges and is essential reading for the Water Utility Manager, Engineer and Director and for Consultants, Designers and Researchers.

Adaptive Behavior and Learning - J. E. R. Staddon 2016-03-10

Summarizes the current state of both theoretical and experimental knowledge about learning in animals.

Numerical Analysis - Richard L. Burden 2010-08-09

This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Systematics - Ward C. Wheeler 2012-06-14

Systematics: A Course of Lectures is designed for use in an advanced undergraduate or introductory graduate level course in systematics and is meant to present core systematic concepts and literature. The book covers topics such as the history of systematic thinking and fundamental concepts in the field including species concepts, homology, and hypothesis testing. Analytical methods are covered in detail with chapters devoted to sequence alignment, optimality criteria, and methods such as distance, parsimony, maximum likelihood and Bayesian approaches. Trees and tree searching, consensus and super-tree methods, support measures, and other relevant topics are each covered in their own sections. The work is not a bleeding-edge statement or in-depth review of the entirety of systematics, but covers the basics as broadly as could be handled in a one semester course. Most chapters are designed to be a single 1.5 hour class, with those on parsimony, likelihood, posterior probability, and tree searching two classes (2 x 1.5 hours).

Environmental Modelling - John Wainwright 2005-04-08

Simulation models are increasingly used to investigate processes and solve practical problems in a wide variety of disciplines eg. climatology, ecology, hydrology, geomorphology, engineering. *Environmental Modelling: A Practical Approach* addresses the development, testing and application of such models, which apply across traditional boundaries, and demonstrate how interactions across these boundaries can be beneficial. Provides a general overview of methods and approaches as well as focusing on key subject areas written by leading practitioners in the field. Assesses the advantages and disadvantages of different models used and provides case studies supported with data, output, tutorial exercises and links to the model and/or model applications via the book's website. Covers major developments in the field, eg. the use of GIS and remote sensing techniques, and scaling issues. As associated website contains colour images, as well as links to www resources.

Bibliography of Scientific and Industrial Reports - 1970

World of Chemistry - Steven S. Zumdahl 2006-08

Our high school chemistry program has been redesigned and updated to give your students the right balance of concepts and applications in a program that provides more active learning, more real-world connections, and more engaging content. A revised and enhanced text, designed especially for high school, helps students actively develop and apply their understanding of chemical concepts. Hands-on labs and activities emphasize cutting-edge applications and help students connect concepts to the real world. A new, captivating design, clear writing style, and innovative technology resources support your students in getting the most out of their textbook. - Publisher.

Sensitivity Analysis: Matrix Methods in Demography and Ecology - Hal Caswell 2019-04-02

This open access book shows how to use sensitivity analysis in demography. It presents new methods for individuals, cohorts, and populations, with applications to humans, other animals, and plants. The analyses are based on matrix formulations of age-classified, stage-classified, and multistate population models. Methods are presented for linear and nonlinear, deterministic and stochastic, and time-invariant and time-varying cases. Readers will discover results on the sensitivity of statistics of longevity, life disparity, occupancy times, the net reproductive rate, and statistics of Markov chain models in demography. They will also see applications of sensitivity analysis to population growth rates, stable population structures, reproductive value, equilibria under immigration and nonlinearity, and population cycles. Individual stochasticity is a theme throughout, with a focus that goes beyond expected values to include variances in demographic outcomes. The calculations are easily and accurately implemented in matrix-oriented programming languages such as Matlab or R. Sensitivity analysis will help

readers create models to predict the effect of future changes, to evaluate policy effects, and to identify possible evolutionary responses to the environment. Complete with many examples of the application, the book will be of interest to researchers and graduate students in human demography and population biology. The material will also appeal to those in mathematical biology and applied mathematics.

The Copyeditor's Handbook - Amy Einsohn 2005-12-07

The Copyeditor's Handbook is a lively, practical manual for newcomers to publishing and for experienced editors who want to fine-tune their skills or broaden their understanding of the craft. Addressed to copyeditors in book publishing and corporate communications, this thoughtful handbook explains what copyeditors do, what they look for when they edit a manuscript, and how they develop the editorial judgment needed to make sound decisions. This revised edition reflects the most recent editions of The Chicago Manual of Style (15th ed.), the Publication Manual of the American Psychological Association (5th ed.), and Merriam-Webster's Collegiate Dictionary (11th ed.).

Technical guidance manual for developing total maximum daily loads book 2streams and riverspart 1biochemical oxygen demand/dissolved oxygen and nutrients/eutrophication. -

Ecology - Charles J. Krebs 2001

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.ecologyplace.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.

Dermatology - Sima Jain 2012-03-29

A fully-illustrated, note-packed volume of information, *Dermatology: Illustrated Study Guide and Comprehensive Board Review* fulfills a real need for a single study guide for the Dermatology Board Exam. Written by a previous Chief Resident of Dermatology at the University of Illinois at Chicago Medical Center, the text focuses on presenting comprehensive information in an easy-to-understand, easy-to-remember format. Tips, tricks, short lists, and tables fill every inch of this book—a must-have for any dermatology resident. Features: Acts as a concise go-to review book for the Dermatology Board Exam Hundreds of author notes pinpointing important information presented in an easy-to-read format Scores of mnemonics and memory tricks to mentally organize information Over 500 high-quality images placed parallel to the represented skin disorder Life after Boards—essential tips on coding and documentation

Spreadsheet Exercises in Ecology and Evolution - Therese Marie Donovan 2002

The exercises in this unique book allow students to use spreadsheet programs such as Microsoft Excel to create working population models. The book contains basic spreadsheet exercises that explicate the concepts of statistical distributions, hypothesis testing and power, sampling techniques, and Leslie

matrices. It contains exercises for modeling such crucial factors as population growth, life histories, reproductive success, demographic stochasticity, Hardy-Weinberg equilibrium, metapopulation dynamics, predator-prey interactions (Lotka-Volterra models), and many others. Building models using these exercises gives students "hands-on" information about what parameters are important in each model, how different parameters relate to each other, and how changing the parameters affects outcomes. The "mystery" of the mathematics dissolves as the spreadsheets produce tangible graphic results. Each exercise grew from hands-on use in the authors' classrooms. Each begins with a list of objectives, background information that includes standard mathematical formulae, and annotated step-by-step instructions for using this information to create a working model. Students then examine how changing the parameters affects model outcomes and, through a set of guided questions, are challenged to develop their models further. In the process, they become proficient with many of the functions available on spreadsheet programs and learn to write and use complex but useful macros. *Spreadsheet Exercises in Ecology and Evolution* can be used independently as the basis of a course in quantitative ecology and its applications or as an invaluable supplement to undergraduate textbooks in ecology, population biology, evolution, and population genetics.

Ancient Maya Commerce - Scott R. Hutson 2017-03-01

Ancient Maya Commerce presents nearly two decades of multidisciplinary research at Chunchucmil, Yucatan, Mexico—a thriving Classic period Maya center organized around commercial exchange rather than agriculture. An urban center without a king and unable to sustain agrarian independence, Chunchucmil is a rare example of a Maya city in which economics, not political rituals, served as the engine of growth. Trade was the *raison d'être* of the city itself. Using a variety of evidence—archaeological, botanical, geomorphological, and soil-based—contributors show how the city was a major

center for both short- and long-distance trade, integrating the Guatemalan highlands, the Gulf of Mexico, and the interior of the northern Maya lowlands. By placing Chunchucmil into the broader context of emerging research at other Maya cities, the book reorients the understanding of ancient Maya economies. The book is accompanied by a highly detailed digital map that reveals the dense population of the city and the hundreds of streets its inhabitants constructed to make the city navigable, shifting the knowledge of urbanism among the ancient Maya. *Ancient Maya Commerce* is a pioneering, thoroughly documented case study of a premodern market center and makes a strong case for the importance of early market economies in the Maya region. It will be a valuable addition to the literature for Mayanists, Mesoamericanists, economic anthropologists, and environmental archaeologists. Contributors: Anthony P. Andrews, Traci Ardren, Sheryl Luzzadder-Beach, Timothy Beach, Chelsea Blackmore, Tara Bond-Freeman, Bruce H. Dahlin, Patrice Farrell, David Hixson, Socorro Jimenez, Justin Lowry, Aline Magnoni, Eugenia Mansell, Daniel E. Mazaue, Travis Stanton, Ryan V. Sweetwood, Richard E. Terry

Selection and Breeding Programs in Aquaculture - Trygve Gjedrem
2005-12-05

Although aquaculture as a biological production system has a long history, systematic and efficient breeding programs to improve economically important traits in the farmed species have rarely been utilized until recently, except for salmonid species. This means that the majority of aquaculture production (more than 90 %) is based on genetically unimproved stocks. In farm animals the situation is vastly different: practically no terrestrial farm production is based on genetically unimproved and undomesticated populations. This difference between aquaculture and livestock production is in spite of the fact that the basic elements of breeding theory are the same for fish and shellfish as for farm animals. One possible reason for the difference is

the complexity of reproductive biology in aquatic species, and special consideration needs to be taken in the design of breeding plans for these species. Since 1971 AKVAFORSK, has continuously carried out large scale breeding research projects with salmonid species, and during the latest 15 years also with a number of fresh water and marine species. Results from this work and the results from other institutions around the world have brought forward considerable knowledge, which make the development of efficient breeding programs feasible. The genetic improvement obtained in selection programs for fish and shellfish is remarkable and much higher than what has been achieved in terrestrial farm animals.

Current Index to Journals in Education - 1984

Technical Abstract Bulletin -

The R Book - Michael J. Crawley 2007-06-13

The high-level language of R is recognized as one of the most powerful and flexible statistical software environments, and is rapidly becoming the standard setting for quantitative analysis, statistics and graphics. R provides free access to unrivalled coverage and cutting-edge applications, enabling the user to apply numerous statistical methods ranging from simple regression to time series or multivariate analysis. Building on the success of the author's bestselling *Statistics: An Introduction using R*, *The R Book* is packed with worked examples, providing an all inclusive guide to R, ideal for novice and more accomplished users alike. The book assumes no background in statistics or computing and introduces the advantages of the R environment, detailing its applications in a wide range of disciplines. Provides the first comprehensive reference manual for the R language, including practical guidance and full coverage of the graphics facilities. Introduces all the statistical models covered by R, beginning with simple classical tests such as chi-square and t-test.

Proceeds to examine more advance methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. The R Book is aimed at undergraduates, postgraduates and professionals in science, engineering and medicine. It is also ideal for students and professionals in statistics, economics, geography and the social sciences.

Understanding Statistics in the Behavioral Sciences - Robert R. Pagano
2012-01-01

Based on over 30 years of successful teaching experience in this course, Robert Pagano's introductory text takes an intuitive, concepts-based approach to descriptive and inferential statistics. He uses the sign test to introduce inferential statistics, empirically derived sampling distributions, many visual aids, and lots of interesting examples to promote student understanding. One of the hallmarks of this text is the positive feedback from students -- even students who are not mathematically inclined praise the text for its clarity, detailed presentation, and use of humor to help make concepts accessible and memorable. Thorough explanations precede the introduction of every formula, and the exercises that immediately follow include a step-by-step model that lets students compare their work against fully solved examples. This combination makes the text perfect for students taking their first statistics course in psychology or other social and behavioral sciences. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Managing Ocean Environments in a Changing Climate - Kevin J. Noone
2013-06-29

Managing Ocean Environments in a Changing Climate summarizes the current state of several threats to the global oceans. What distinguishes this book most from previous works is that this book begins with a holistic, global-scale focus for the first several chapters and then provides an example of how

this approach can be applied on a regional scale, for the Pacific region.

Previous works usually have compiled local studies, which are essentially impossible to properly integrate to the global scale. The editors have engaged leading scientists in a number of areas, such as fisheries and marine ecosystems, ocean chemistry, marine biogeochemical cycling, oceans and climate change, and economics, to examine the threats to the oceans both individually and collectively, provide gross estimates of the economic and societal impacts of these threats, and deliver high-level recommendations. Nominated for a Katerva Award in 2012 in the Economy category State of the science reviews by known marine experts provide a concise, readable presentation written at a level for managers and students Links environmental and economic aspects of ocean threats and provides an economic analysis of action versus inaction Provides recommendations for stakeholders to help stimulate the development of policies that would help move toward sustainable use of marine resources and services

Metaheuristics - El-Ghazali Talbi 2009-05-27

A unified view of metaheuristics This book provides a complete background on metaheuristics and shows readers how to design and implement efficient algorithms to solve complex optimization problems across a diverse range of applications, from networking and bioinformatics to engineering design, routing, and scheduling. It presents the main design questions for all families of metaheuristics and clearly illustrates how to implement the algorithms under a software framework to reuse both the design and code. Throughout the book, the key search components of metaheuristics are considered as a toolbox for: Designing efficient metaheuristics (e.g. local search, tabu search, simulated annealing, evolutionary algorithms, particle swarm optimization, scatter search, ant colonies, bee colonies, artificial immune systems) for optimization problems Designing efficient metaheuristics for multi-objective optimization problems Designing hybrid, parallel, and distributed

metaheuristics Implementing metaheuristics on sequential and parallel machines Using many case studies and treating design and implementation independently, this book gives readers the skills necessary to solve large-scale optimization problems quickly and efficiently. It is a valuable reference for practicing engineers and researchers from diverse areas dealing with optimization or machine learning; and graduate students in computer science, operations research, control, engineering, business and management, and applied mathematics.

Canine and Feline Gastroenterology - E-Book - Robert J. Washabau
2012-09-02

A comprehensive reference standard for the discipline, Canine and Feline Gastroenterology covers the biology, pathobiology, and diagnosis and treatment of diseases of the gastrointestinal, pancreatic, and hepatobiliary systems. An international team of experts, including 85 authors from 17 different countries, led by Robert Washabau and Michael Day, covers everything from minor problems such as adverse food reactions to debilitating inflammatory, infectious, metabolic, and neoplastic diseases of the digestive system. This authoritative text utilizes an evidence-based approach to reflect the latest science and research, complemented by principles of problem solving, algorithms to improve clinical diagnoses, and extensive full-color illustrations. For generalists and specialists alike, this gastroenterology reference should be part of every serious practitioner's professional library. A comprehensive, 928-page reference standard covers the discipline of canine and feline gastroenterology. An international focus is provided by 85 authors from 17 different countries, including renowned experts in veterinary gastroenterology, internal medicine, pathology, clinical pathology, radiology, and infectious disease. Coverage of the entire breadth and depth of gastroenterology ranges from biology to pathobiology, as well as diagnosis and treatment of diseases of the gastrointestinal, pancreatic, and hepatobiliary

systems. Current information on GI microflora, immunology, cellular growth, and systems integration provides a foundation for treating clinical problems. Coverage of diseases in dogs and cats includes the oral cavity, esophagus, stomach, small intestine, large intestine, colon, anorectum, liver and biliary tract, exocrine pancreas, peritoneum, and associated vasculature. A focus on patient management examines the full range of procedures and techniques essential to diagnosis and treatment from clinical signs and diagnosis to nutritional support and pharmacologic management of disease. Clear explanations of current diagnostic modalities include laboratory tests, molecular methods, diagnostic imaging, endoscopy, and histopathology, also showing how to interpret and utilize results. A strong clinical approach emphasizes need-to-know information for managing the common and not-so-common G.I. clinical problems of everyday practice. Full-color photographs and illustrations depict concepts, conditions, and procedures. An evidence-based medicine perspective reflects the latest research as well as the modern practice of veterinary medicine. Logical, coherent, and consistent internal organization makes this a reader-friendly edition. Problem-based algorithms help in diagnosing every G.I. clinical problem from A to Z. A stand-alone section on the pharmacologic approach to G.I. disease offers quick and easy drug reference.

Artificial Nucleases - Marina A. Zenkova 2004-01-07

The development of agents capable of cleaving RNA and DNA has attracted considerable attention from researchers in the last few years, because of the immediate and very important applications they can find in the emerging fields of biotechnology and pharmacology. There are essentially two classes of these agents - nucleases that occur naturally inside cells and synthetically produced artificial nucleases. The first class includes protein enzyme nucleases and catalytic RNA structured ribozymes that perform cleavage of the phosphodiester bonds in nucleic acids according to a hydrolytic pathway in

the course of different biochemical processes in the cell. A different pathway is used by some antibiotics which cleave DNA via redox-based mechanisms resulting in oxidative damage of nucleotide units and breakage of the DNA backbone. The above molecules are indispensable tools for manipulating nucleic acids and processing RNA; DNA-cleaving antibiotics and cytotoxic ribonucleases have demonstrated utility as chemotherapeutic agents. The second class, artificial nucleases, are rationally designed to imitate the active centers of natural enzymes by simple structures possessing minimal sets of the most important characteristics that are essential for catalysis. A different approach, in vitro selection, was also used to create artificial RNA and DNA enzymes capable of cleaving RNA. Being less efficient and specific as compared to the natural enzymes, the primitive mimics are smaller and robust and can function in a broad range of conditions.

Collins Cobuild Key Words for IELTS Book 3 - Harpercollins Uk 2011

'Collins Cobuild Key Words for IELTS' is a brand-new range of three graded books which contain the essential vocabulary students need to succeed in the IELTS exam.

Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms - 1994

Chemical Warfare Agents - Brian J. Lukey 2000-12-07

Many books cover the emergency response to chemical terrorism. But what happens after the initial crisis? Chlorine, phosgene, and mustard were used in World War I. Only years after the war were the long-term effects of these gases realized. In the 60s, 70s, and 80s, these and other agents were used in localized wars. *Chemical Warfare Agents: Toxicity at Low Levels* explores the long range effects of, protection against, and remedies for chemicals used during war and the chronic problems possibly resulting from toxic exposures during the Persian Gulf War.

Blood and Earth - Kevin Bales 2016-01-19

For readers of such crusading works of nonfiction as Katherine Boo's *Beyond the Beautiful Forevers* and Tracy Kidder's *Mountains Beyond Mountains* comes a powerful and captivating examination of two entwined global crises: environmental destruction and human trafficking—and an inspiring, bold plan for how we can solve them. A leading expert on modern-day slavery, Kevin Bales has traveled to some of the world's most dangerous places documenting and battling human trafficking. In the course of his reporting, Bales began to notice a pattern emerging: Where slavery existed, so did massive, unchecked environmental destruction. But why? Bales set off to find the answer in a fascinating and moving journey that took him into the lives of modern-day slaves and along a supply chain that leads directly to the cellphones in our pockets. What he discovered is that even as it destroys individuals, families, and communities, new forms of slavery that proliferate in the world's lawless zones also pose a grave threat to the environment. Simply put, modern-day slavery is destroying the planet. The product of seven years of travel and research, *Blood and Earth* brings us dramatic stories from the world's most beautiful and tragic places, the environmental and human-rights hotspots where this crisis is concentrated. But it also tells the stories of some of the most common products we all consume—from computers to shrimp to jewelry—whose origins are found in these same places. *Blood and Earth* calls on us to recognize the grievous harm we have done to one another, put an end to it, and recommit to repairing the world. This is a clear-eyed and inspiring book that suggests how we can begin the work of healing humanity and the planet we share. Praise for *Blood and Earth* “A heart-wrenching narrative . . . Weaving together interviews, history, and statistics, the author shines a light on how the poverty, chaos, wars, and government corruption create the perfect storm where slavery flourishes and environmental destruction follows. . . . A clear-eyed account of man's inhumanity to man and

Earth. Read it to get informed, and then take action.”—Kirkus Reviews (starred review) “[An] exposé of the global economy’s ‘deadly dance’ between slavery and environmental disaster . . . Based on extensive travels through eastern Congo’s mineral mines, Bangladeshi fisheries, Ghanaian gold mines, and Brazilian forests, Bales reveals the appalling truth in graphic detail. . . . Readers will be deeply disturbed to learn how the links connecting slavery, environmental issues, and modern convenience are forged.”—Publishers Weekly “This well-researched and vivid book studies the connection

between slavery and environmental destruction, and what it will take to end both.”—Shelf Awareness (starred review) “This is a remarkable book, demonstrating once more the deep links between the ongoing degradation of the planet and the ongoing degradation of its most vulnerable people. It’s a bracing reminder that a mentality that allows throwaway people also allows a throwaway earth.”—Bill McKibben, author of *Eaarth: Making a Life on a Tough New Planet*