

Animal Behavior Desk Reference Crc Press 2011

"Words are our tools, and, as a minimum, we should use clean tools. We should know what we mean and what we do not, and we must forearm ourselves against the traps that language sets us." -- The Need for Precise Terminology, Austin (1957, 78) It follows that, for effective and efficient communication, people should have, or at least understand, the same precise terminology. Such terminology is crucial for the advancement of basic, theoretical, and applied science, yet too often there is ambiguity between scientific and common definitions and even discrepancies in the scientific literature. Providing a common ground and platform for precise scientific communication in animal behavior, ecology, evolution, and related branches of biology, Animal Behavior Desk Reference, A Dictionary of Behavior, Ecology, and Evolution, Third Edition contains more than 800 new terms and definitions, 48 new figures, and thousands of additions and improvements. Using a dictionary format to present definitions in a standard, easily accessible manner, the books main body emphasizes conceptual terms, rather than anatomical parts or taxonomic terms, and focuses on nouns, rather than verbs or adjectives. Term hierarchies are handled with bulleted entries and terms with multiple definitions are included as superscripted entries. All sources are cited and most are paraphrased to conform to uniform style and length. The dictionary also includes nontechnical and obsolete terms, synonyms, pronunciations, and notes and comments, as well as etymologies, term originators, and related facts. Appendices address organism names, organizations, and databases. Devoted to the precise and correct use of scientific language, this third edition of a bestselling standard enables students and scientists alike to communicate their findings and promote the efficient advancement of science.

This book compiles tables of important data into a single, convenient source for use in the analytical laboratory. It covers both "instrumental" methods and "wet" chemical techniques. The easy-to-use tables contain information from the most current research papers and provide data which is not easily obtained elsewhere. For example, you'll find a section on supercritical fluid chromatography, in which a tabular P-r-T surface for carbon dioxide has been specially calculated using an accurate equation of state. This book is extremely useful to practicing scientists, research students and anyone who must make routine use of chemical analysis in their work.

A world list of books in the English language.

This book addresses Furnace Atomic Absorption Spectroscopy, which has gained worldwide acceptance as an analytical technique. FAAS offers 100-1000 times better determination and detection limits than other techniques for a majority of the elements. This technique requires a small sample size, and demands less sample-preparation time than others. The handbook is a collection of thousands of references for detection and determination of various elements in agricultural products, biological and clinical samples, and metallurgical and electronic materials. Each chapter is devoted to an element or a similar group of elements. Included are instrumental setup parameters, references, and author and subject indexes. Also presented are detailed appendixes covering glossary, list of manufacturers of spectrophotometers and its accessories, list of chemical suppliers, and list of reviews and abstracts. The handbook covers topics such as heavy metals, clinical products and trace metal analysis. This desk-top reference is meant for chemists who handle day-to-day analysis problems in laboratories in government, clinical, industrial and academic settings. It is invaluable for those involved in research in environmental science, analytical chemistry, clinical chemistry and forensic science.

Current Ornithology

Physical Processes in Inorganic Scintillators

An Atlas of Orchid Pollination

Calvin College and the Christian Reformed Church

Second Edition

Animal Behavior Desk ReferenceA Dictionary of Animal Behavior, Ecology, and Evolution, Third EditionCRC Press

HIV and AIDS are having a profound impact on contemporary life in Thailand, generating complex issues with far-reaching implications for both the Thai people and on a global level. AIDS has become an increasingly prominent symbol of modernity in Thailand, yet ways of dealing with AIDS and HIV draw on time-honoured understandings of fate and misfortune, disease and contagion, gender and pollution. Endangered Relations provides a crucial analysis of how public health has attempted to control the threat of HIV infection, and how this has combined with local understandings of identity and sexuality; it sets in place a broad range of personal and social responses to the ongoing epidemic. An illuminating study of the way in which Thai social relations, and in particular Thai sexualities, shape the history of HIV and AIDS in Thailand, Endangered Relations offers a unique perspective on the complicated ways that disease is negotiated in cultural, political, and human terms.

Providing valuable insight on physical behavior of polymer solutions, intermolecular interactions, and the molecular nature of mixtures, each volume in this one-of-a-kind handbook brings together reliable, easy-to-use entries, references, tables, examples, and appendices on experimental data from hundreds of primary journal articles, dissertations, and other published papers. This three-volume set presents hundreds of data sets including VLE/gas solubility isotherms, LLE and HPPE for polymer systems in supercritical fluids, as well as volumetric, enthalpic, and virial coefficient data sets, essential for handling industrial and laboratory processes involving all types of polymer systems... CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions CRC Handbook of Thermodynamic Data of Copolymer Solutions

Computer Imaging: Digital Image Analysis and Processing brings together analysis and processing in a unified framework, providing a valuable foundation for understanding both computer vision and image processing applications. Taking an engineering approach, the text integrates theory with a conceptual and application-oriented style, allowing you to immediately understand how each topic fits into the overall structure of practical application development. Divided into five major parts, the book begins by introducing the concepts and definitions necessary to understand computer imaging. The second part describes image analysis and provides the tools, concepts, and models required to analyze digital images and develop computer vision applications. Part III discusses application areas for the processing of images, emphasizing human visual perception. Part IV delivers the information required to apply a CVIPools environment to algorithm development. The text concludes with appendices that provide supplemental imaging information and assist with the programming exercises found in each chapter. The author presents topics as needed for understanding each practical imaging model being studied. This motivates the reader to master the topics and also makes the book useful as a reference. The CVIPools software integrated throughout the book, now in a new Windows version, provides practical examples and encourages you to conduct additional exploration via tutorials and programming exercises provided with each chapter.

Manual of Parrot Behavior

Hdbk of Lipid Bilayers

Guide to Reference and Information Sources in the Zoological Sciences

Cumulative Book Index

Tables for the Use of Range and Studentized Range in Tests of Hypotheses

A companion volume to the authors' previous well-received work, the CRC Handbook of Tables for the Use of Order Statistics in Estimation, this handbook discusses testing whether a hypothesis is true or false. Together, these volumes are your complete reference to theory and important tables relating to order statistics and their applications. Once a researcher completes an experiment, the resulting data is assumed to have come from a normal distribution with its mean and variance unknown. The researcher is then presented with a hypothesis testing problem. The use of order statistics and related functions offers a simple, powerful, and interesting approach to solving this problem. This volume presents an introduction to the use of order statistics and explains the various problems and their applications. The role of order statistics in solving these problems is examined, several important statistics are introduced, and their use in addressing testing of hypothesis problems is highlighted. The book also includes numerous tables that facilitate the methods of hypothesis testing using order statistics. Examples are given of the use of these tables in multiple comparison tests, with attention to error rates and sample sizes, and in the analog range of analysis of variance.

The history of Calvin College is a fascinating one. The school's rise to prominence on the landscape of Christian higher education has been accompanied by important milestones in its relationship with the Christian Reformed Church. This volume chronicles the development of Calvin College, focusing in particular on the interaction and mutual influence between the college and the church. In recounting the history of the relationship between Calvin College and the CRC, Harry Boonstra covers a wide range of pragmatic themes, including curriculum, student conduct, student publications, faculty hiring, and faculty views. But he also delves into broader areas, such as issues of theology, philosophy, geology, film, music, and card playing. While of particular interest to readers connected with Calvin College or with the Christian Reformed Church, this study will also benefit students of American church history and those interested in the development of church-sponsored higher education.

This text presents R programs and animations to provide an intuitive yet rigorous understanding of how to model natural phenomena from a probabilistic point of view. It centers on viewing probability as a way to look at the world and shows how to combine and link stochastic processes to form more complex processes that are better models of natural phenomena. The text also covers the Poisson process, transforms, Bayesian networks, entropy and information, and Markov chains. Each chapter includes a short biographical note about a contributor to probability theory, exercises, and selected answers. Ancillary material is accessible online.

This work follows on from the 1995 publication on European orchids. The atlas is now completed with a second part, containing data on the pollination of orchids of the continents of America, Asia, Africa (including Madagascar) and Australia (including New Zealand).The first part of the book is adapted from the general account of the previous publication and is extended with chapters on taxonomy and pollinators. The general account deals with such things as the history, evolution, morphology, chemistry and genetics of orchid pollination. The second part gives a systematic account for each continent of all well known details. The text is designed to have relevance for orchid lovers whether professional or amateur.

Feeding in Vertebrates

Color Atlas of Dangerous Marine Animals

The Quantum Dice

The Diversity and Evolution of Plants

A Dictionary of Animal Behavior, Ecology, and Evolution, Third Edition

"Words are our tools, and, as a minimum, we should use clean tools. We should know what we mean and what we do not, and we must forearm ourselves against the traps that language sets us." -- The Need for Precise Terminology, Austin (1957, 7-8) It follows that, for effective and efficient communication, people should have, or at least understand, the same precise terminology. Such terminology is crucial for the advancement of basic, theoretical, and applied science, yet too often there is ambiguity between scientific and common definitions and even discrepancies in the scientific literature. Providing a common ground and platform for precise scientific communication in animal behavior, ecology, evolution, and related branches of biology, Animal Behavior Desk Reference, A Dictionary of Behavior, Ecology, and Evolution, Third Edition contains more than 800 new terms and definitions, 48 new figures, and thousands of additions and improvements. Using a dictionary format to present definitions in a standard, easily accessible manner, the book's main body emphasizes conceptual terms, rather than anatomical parts or taxonomic terms, and focuses on nouns, rather than verbs or adjectives. Term hierarchies are handled with bulleted entries and terms with multiple definitions are included as superscripted entries. All sources are cited and most are paraphrased to conform to uniform style and length. The dictionary also includes nontechnical and obsolete terms, synonyms, pronunciations, and notes and comments, as well as etymologies, term originators, and related facts. Appendices address organism names, organizations, and databases. Devoted to the precise and correct use of scientific language, this third edition of a bestselling standard enables students and scientists alike to communicate their findings and promote the efficient advancement of science.

This book provides students and researchers with reviews of biological questions related to the evolution of feeding by vertebrates in aquatic and terrestrial environments. Based on recent technical developments and novel conceptual approaches, the book covers functional questions on trophic behavior in nearly all vertebrate groups including jawless fishes. The book describes mechanisms and theories for understanding the relationships between feeding structure and feeding behavior. Finally, the book demonstrates the importance of adopting an integrative approach to the trophic system in order to understand evolutionary mechanisms across the biodiversity of vertebrates.

Current Ornithology publishes authoritative, up-to-date, scholarly reviews of topics selected from the full range of current research in avian biology. Topics cover the spectrum from the molecular level of organization to population biology and community ecology. The series seeks especially to review 1) fields in which abundant recent literature will benefit from synthesis and organization, 2) newly emerging fields that are gaining recognition as the result of recent discoveries or shifts in perspective, and 3) fields in which students of vertebrates may benefit from comparisons of birds with other classes. All chapters are invited, and authors are chosen for their leadership in the subjects under review.

First derived within the context of life-testing, inverse Gaussian distribution has become one of the most important and widely employed distributions, and is often used to model the lifetimes of components. It is also used as a model in many varied applications, including fatigue analysis, economic prediction analysis, and the analysis of extreme events such as rainfall and flood levels. The interesting features and properties of this distribution make it an important and realistic model in a variety of problems across numerous disciplines. Because of the broad range of applications, this handbook will be useful not only to members of the statistical community but will also appeal to applied scientists, engineers, econometricians, and anyone who desires a thorough evaluation of this important topic.

CRC Handbook of Furnace Atomic Absorption Spectroscopy

CRC Handbook of Tables for Order Statistics from Inverse Gaussian Distributions with Applications

Fisheries Review

Our School

CRC Practical Handbook of Materials Selection

The CRC Handbook of Solubility Parameters and Other Cohesion Parameters, Second Edition, which includes 17 new sections and 40 new data tables, incorporates information from a vast amount of material published over the last ten years. The volume is based on a bibliography of 2,900 reports, including 1,200 new citations. The detailed, careful construction of the handbook develops the concept of solubility parameters from empirical, thermodynamic, and molecular points of view and demonstrates their application to liquid, gas, solid, and polymer systems.

This authoritative reference, the first of its kind, is a necessary addition to the library of any practitioner or behaviorist who sees avain companion animals. Because of their beauty, intelligence, playfulness and ability in mimicry, parrots are the most widely kept companion birds. It is estimated that more than half of the psittacine cases presented to clinicians are the result of behavioral problems--problems inherent to captivity. Bringing together a host of international experts on avian behavior, Manual of Parrot Behavior explores the many facets of psittacine behavior, both normal and abnormal. The book not only provides readers with a solid understanding of the basic principles of psittacine behavior but also offers useful techniques of diagnosis and treatment for specific problems. Covers both normal and abnormal parrot behavior Offers practical techniques on diagnosis and treatment of behavior problems Written by a team of international experts on avian behavior A necessary addition to the library of any practitioner of behaviorist who sees avian companion animals

This exciting new textbook examines the concepts of evolution as the underlying cause of the rich diversity of life on earth--and our danger of losing that rich diversity. Written as a college textbook, The Diversity and Evolution of Plants introduces the great variety of life during past ages, manifested by the fossil record, using a new natural classification system. It begins in the Proterozoic Era, when bacteria and bluegreen algae first appeared, and continues through the explosions of new marine forms in the Helikian and Hadrynian Periods, land plants in the Devonian, and flowering plants in the Cretaceous. Following an introduction, the three kingdoms of plants are discussed. Each chapter covers one of the eleven divisions of plants and begins with an interesting vignette of a plant typical of that division. A section on each of the classes within the division follows. Each section describes where the groups of plants are found and their distinguishing features. Discussions in each section include phylogeny and classification, general morphology, and physiology, ecological significance, economic uses, and potential for research. Suggested readings and student exercises are found at the end of each chapter.

Animals have been studied for centuries. But what are the most important and relevant reference and information sources in the zoological sciences? This work is a comprehensive, thoroughly annotated directory filled with hundreds of esteemed resources published in the field of zoology, including indexes, abstracts, bibliographies, journals, biographies and histories, dictionaries and encyclopedias, textbooks, checklists and classification schemes, handbooks and field guides, associations, and Web sites. A complete revision of the award-winning Guide to the Zoological Literature: The Animal Kingdom (1994), this new title includes extensive, up-to-date coverage of invertebrates, arthropods, vertebrates, fishes, amphibians and reptiles, birds, and mammals. In addition, the work features a detailed introduction by the author, as well as thorough subject, title, and author indexes. Students and researchers can now quickly and easily pinpoint works in their field of study. The book is of equal importance to LIS students specializing in science or biology librarianship, as it provides a comprehensive, straight-forward overview of zoological information sources. An essential addition to the core reference collection of public and academic libraries!

Basic Laboratory and Industrial Chemicals

CRC Handbook of Solubility Parameters and Other Cohesion Parameters, Second Edition

Feline Behavioral Health and Welfare

Evolution, Morphology, Behavior, Biomechanics

Digital Image Analysis and Processing

The CRC Concise Encyclopedia of Mathematics is a compendium of mathematical definitions, formulas, figures, tabulations, and references. Its informal style makes it accessible to a broad spectrum of readers with a diverse range of mathematical backgrounds and interests. This fascinating, useful book draws connections to other areas of mathematics and science and demonstrates its actual implementation - providing a highly readable, distinctive text diverging from the all-too-frequent specialized jargon and dry, formal exposition. Through its thousands of explicit examples, formulas, and derivations, the CRC Concise Encyclopedia of Mathematics gives the reader a flavor of the subject without getting lost in minutiae - stimulating his or her thirst for additional information and exploration. This book serves as handbook, dictionary, and encyclopedia - extensively cross-linked and cross-referenced, not only to other related entries, but also to resources on the Internet. Standard mathematical references, combined with a few popular ones, are also given at the end of most entries, providing a resource for more reading and exploration.

During the last ten to fifteen years, researchers have made considerable progress in the study of inorganic scintillators. New scintillation materials have been investigated, novel scintillation mechanisms have been discovered, and additional scintillator applications have appeared. Demand continues for new and improved scintillation materials for a variety of applications including nuclear and high energy physics, astrophysics, medical imaging, geophysical exploration, radiation detection, and many other fields. However, until now there have been no books available that address in detail the complex scintillation processes associated with these new developments. Now, a world leader in the theory and applications of scintillation processes integrates the latest scientific advances of scintillation into a new work, Physical Processes in Inorganic Scintillators. Written by distinguished researcher Piotr Rodnyj, this volume explores this challenging subject, explains the complexities of scintillation from a modern point of view, and illuminates the way to the development of better scintillation materials. This unique work first defines the fundamental physical processes underlying scintillation and governing the primary scintillation characteristics of light output, decay time, emission spectrum, and radiation hardness. The book then discusses the complicated mechanisms of energy conversion and transformation in inorganic scintillators. The section on the role of defects in energy transfer and scintillation efficiency will be of special interest. Throughout, the author does not offer complicated derivations of equations but, instead, presents useful equations with practical results.

Entries examine a broad array of different species and behavior patterns, using techniques that range from molecular approaches to the study of behavior to analyses of individuals, populations, species, and ecosystems.

"Real black magic calculus" is how Albert Einstein described quantum mechanics in a letter in 1925. Quantum mechanics is now rather more widely understood by physicists, but still many "outsiders" are unaware of what quantum mechanics is, how it has changed the course of development of physics and how it affects their everyday lives. This book gives a fascinating account of the evolution of the ideas and concepts of quantum theory and modern physics, written by an "insider" but aimed specifically at the general science reader. Many anecdotes from famous past physicists give an insight into their work and personalities. The many illustrations are an important and attractive feature of the book. Leonid Ponomarev is a leading theoretical physicist. His deep understanding of the subject is allied with his wide knowledge of history, literature and philosophy to produce this history of the development of modern physics and its impact on our lives.

Handbook of Polymer-Liquid Interaction Parameters and Solubility Parameters

Endangered Relations

Animal Behavior Desk Reference

Handbook of Particle Physics

CRC Concise Encyclopedia of Mathematics

Literally thousands of elementary particles have been discovered over the last 50 years, their properties measured, relationships systematized, and existence and behavior explained in a myriad of cleverly constructed theories. As the field has grown so impressively, so has its jargon. Until now, scientists in other fields have had no single resource from which they can quickly reference an idea, acronym, or term and find an accessible definition and explanation. The Handbook of Particle Physics fills that void. This unique work contains, in encyclopedic form, terms of interest in particle physics, including its peculiar jargon. It covers the experimental and theoretical techniques of particle physics along with terms from the closely related fields of astrophysics and cosmology. Designed primarily for non-specialists with a basic knowledge of quantum mechanics and relativity, the entries preserve a degree of rigor by providing the relevant technical and mathematical details. Clear and engaging prose, numerous figures, and historical overviews complement the handbook's convenience both as a reference and as an invitation into the fascinating world of particle physics.

Revised and updated, containing over 1,100 new entries, with over 1,100 new entries than in the previous edition, Animal Behavior Desk Reference, Second Edition: A Dictionary of Behavior, Ecology, and Evolution provides definitions for terms in animal behavior, biogeography, evolution, ecology, genetics, psychology, statistics, systematics, and other

Learn to manage the physical and psychological well-being of your feline patients with Feline Behavioral Medicine: Prevention and Treatment. From house soiling problems to aggression, this all-new reference offers detailed guidance on assessing, treating, and preventing the full spectrum of feline behavioral problems. Material is organized by both topic and life stage for quick access to the information you need. Plus its incorporation of patient education materials, instructive images, and the latest AAFP guidelines, makes it an invaluable addition to any vet clinician's library. "This book ... will undoubtedly become THE reference in that very specific field." Reviewed by: Fabienne Dehieux on behalf of Royal Canin: Vets Today, January 2016 UNIQUE! Focus on the prevention of behavior problems is found throughout the majority of the book to show clinicians how to incorporate behavioral considerations into general practice. Comprehensive, holistic care fusing the physical and psychological well-being of feline patients serves as a foundation for all content. International team of expert contributors provides in-depth, authoritative guidance using the most up-to-date information available. Updated information on preventive advice and treatment recommendations follows the guidelines set forth by the AAFP. Client handouts and behavior questionnaires in the book help vets clearly communicate with clients about their cat's behavior.

Basic Laboratory and Industrial Chemicals presents data on 1,000 high-profile chemical substances commonly used in the laboratory and workplace. A wide range of properties is provided for each compound, including the basic physical properties, such as melting point, boiling point, and critical temperatures; density; transition properties, such as vapor pressure and heats of vaporization and fusion; and the thermodynamic properties, viscosity, and thermal conductivity at 25°C. Molecular properties such as dipole moment and ionization potential are also included. Tables appear in alphabetical order by chemical name, and all data are taken from evaluated sources. This book eliminates the need to consult voluminous sources for frequently needed data on the most common chemicals, making it an essential reference for all scientists, engineers, and students.

Handbook of Mammalian Metabolism of Plant Compounds

Handbook of Basic Tables for Chemical Analysis

Encyclopedia of Animal Behavior: R-Z

The Cumulative Book Index

Agrochemicals Desk Reference

With their representation in research on the rise because of refinement in animal experimentation, swine, and miniature swine in particular, are viewed as an alternative non-rodent species to commonly used non-rodent species, such as dogs and primates. Written to provide a complete source of information on the species, this handy guide addresses the biology, husbandry, management, veterinary care and research application of the laboratory swine. The Laboratory Swine, a volume in the Laboratory Animal Pocket Reference Series, is divided into six parts: Part I, Important Biological Features, examines everything from different breeds and behavior, to anatomical and physiological features, as well as digestive, cardiovascular and pulmonary systems. Husbandry, Part II, addresses housing, nutrition, sanitation, transportation, and more. Management and Quality Assurance looks at the impact of infections on animal research using swine; zoonotic diseases; legal regulations; genetic monitoring and more. Part IV, Veterinary Care, covers a variety of topics, such as clinical examination of swine, diseases of swine, pain recognition in swine, and post-operative management. Restraint, sampling techniques, basic surgical procedures, and other issues are addressed in Experimental Techniques. And Resources, Part VI, provides extensive references, including as handbooks, journals and Internet sites, for further study. Ideal for animal caretakers, technicians, investigators, and laboratory animal veterinarians, The Laboratory Swine is a single source of information that contributes to the humane care and use of swine in research.

The CRC Practical Handbook of Materials Selection uses an easy-to-follow organization based on materials properties and includes many data sets to compare materials by property value. This volume serves as a companion volume to the CRC Materials Science and Engineering Handbook, Second Edition. The book provides an introduction to the key professional societies, educational institutions, and employment opportunities in the field of materials science and engineering.

The Second Edition of the Agrochemicals Desk Reference is a revised, up-to-date volume. Much new data has been added to this edition, reflecting the wealth of literature in the field. Featured are environmental and physical/chemical data on more than 200 compounds, including pesticides, herbicides, and fungicides. Among the new additions and changes are: The Environmental Fate section which has been expanded and is now subdivided into the following categories: Biological, Soil, Plant, Surface Water, Groundwater, Photo-lytic, and Chemical/Physical. Also the introduction of experimentally determined bioconcentration factors and half-lives of chemicals in various media. All compounds are listed in alphabetical order, making it easy to find the data you need.

Clear, rigorous definitions of mathematical terms are crucial to good scientific and technical writing - and to understanding the writings of others. Scientists, engineers, mathematicians, economists, technical writers, computer programmers, along with teachers, professors, and students, all have the need for comprehensible, working definitions of mathematical expressions. To meet that need, CRC Press proudly introduces its "Dictionary of Algebra, Arithmetic, and Trigonometry"--The second published volume in the "CRC Comprehensive Dictionary of Mathematics". More than three years in development, top academics and professionals from prestigious institutions around the world bring you more than 2,800 detailed definitions, written in a clear, readable style, complete with alternative meanings, and related references. From Abelian cohomology to zero ring and from the very basic to the highly advanced, this unique lexicon includes terms associated with arithmetic, algebra, and trigonometry, with natural overlap into geometry, topology, and other related areas. Accessible yet rigorous, concise but comprehensive, the "Dictionary of Algebra, Arithmetic, and Trigonometry" is your key to accuracy in writing or understanding scientific, engineering, and mathematical literature.

The Laboratory Swine

The Electrical Engineering Handbook,Second Edition

A CRC Quick Reference Handbook

European Orchids

In 1993, the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work. Now, this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electromagnetics, electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data completes this comprehensive resource. Every major topic is thoroughly covered and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer, researchers, and students. A distinguished advisory board and contributors including many of the leading authors, professors, and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come.

Now available for the first time, this valuable reference presents polymer solubility parameters and various polymer-liquid interaction parameters in an easy-to-use form. It critically evaluates and comprehensively compiles data from original sources. It presents these quantities polymer-by-polymer, alphabetically by polymer common chemical name, fully cross-referenced by systematic chemical names, alternative names and synonyms. This handbook summarizes the relationship between the various quantities and their methods of determination. This resource is an absolute must for all who are interested in the chemical industry, specifically polymer chemistry, chemical engineering, applied chemistry, and physical chemistry.

The marine world harbors many attractive creatures that can sometimes lure the unwary into danger. This dramatic, full color book provides a complete photographic survey of the world's many dangerous marine animals. Practical information contained in this volume includes the biology, habitat, and unique characteristics of each species; geographic location; and prevention and treatment of injuries from each animal.

Closeups and cross-sections of the venom apparatuses of many animals are also included. This book will provide a useful reference source for marine biologists, oceanographers, marine scientists, toxicologists, as well as accident, emergency, and trauma specialists. Its exciting photographs will enthrall anyone intrigued by the sea.

Handbook of Mammalian Metabolism of Plant Compounds provides an extensive survey of how mammals metabolize compounds found in higher plants. Information about these compounds is important to researchers in pharmacology, toxicology, medical and natural products chemistry, and food sciences. Although there is plenty of literature about mammalian metabolism of plant compounds, it is scattered, and summaries of specific plant compounds are often difficult to obtain. This book contains 11 chapters discussing the metabolic fate of individual plant compounds grouped according to chemical class. It also features structural formulas of the compounds and their metabolites, including probable pathways of metabolism. This book provides a convenient single-volume reference source that will benefit all researchers requiring this type of information.

Introduction to Probability with R

Environmental Data
A Dictionary of Animal Behavior, Ecology, and Evolution, Second Edition
A Dictionary of Animal Behavior, Ecology, and Evolution
CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set