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This volume provides the origins and meanings of the names of genera and species of extant vascular plants, with the genera arranged alphabetically from A to C.

This book covers water quality indices (WQI) in depth – it describes what purpose they serve, how they are generated, what are their strengths and weaknesses, and how to make the best use of them. It is a concise and unique guide to WQIs for chemists, chemical/environmental engineers and government officials.

Whereas it is easy to express the quantity of water, it is very difficult to express its quality because a large number of variables determine the water quality. WQIs seek to resolve the difficulty by translating a set of a large number of variables to a one-digit or a two-digit numeral. They are essential in communicating the status of different water resources in terms of water quality and the impact of various factors on it to policy makers, service personnel, and the lay public. Further they are exceedingly useful in the monitoring and management of water quality. With the importance of water and water quality increasing exponentially, the importance of this topic is also set to increase enormously because only with the use of indices is it possible to assess, express, communicate, and monitor the

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overall quality of any water source. Provides a concise guide to WQIs: their purpose and generation Compares existing methods and WQIs and outlines strengths and weaknesses Makes recommendations on how the indices should be used and under what circumstances they apply

This handbook provides the only complete collection of high-pressure thermodynamic data pertaining to polymer solutions at elevated pressures to date of all critical data for understanding the physical nature of these mixtures and applicable to a number of industrial and laboratory processes in polymer science, physical chemistry, chemical engineer

Get a FREE first edition facsimile with each copy of the 85th! Researchers around the world depend upon having access to authoritative, up-to-date data. And for more than 90 years, they have relied on the CRC Handbook of Chemistry and Physics for that data. This year is no exception. New tables, extensive updates, and added sections mean the Handbook has again set a new standard for reliability, utility, and thoroughness. This edition features a Foreword by world renowned neurologist and author Oliver Sacks, a free facsimile of the 1913 first edition of the Handbook, and thumb tabs that make it easier to locate particular data. New tables in this edition include: Index of Refraction of Inorganic Crystals Upper and Lower Azeotropic Data for Binary Mixtures Critical Solution

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Temperatures of Polymer Solutions Density of Solvents as a Function of Temperature By popular request, several tables omitted from recent editions are back, including Coefficients of Friction and Miscibility of Organic Solvents. Ten other sections have been substantially revised, with some, such as the Table of the Isotopes and Thermal Conductivity of Liquids, significantly expanded. The Fundamental Physical Constants section has been updated with the latest CODATA/NIST values, and the Mathematical Tables appendix now features several new sections covering topics that include orthogonal polynomials Clebsch-Gordan coefficients, and statistics.

Upon publication, the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope, readability, and utility. It soon took its place among the top selling books in the history of Chapman & Hall/CRC, and its popularity continues unabated. Yet also unabated has been the d

Critical Reviews in Immunology Composite Index for CRC Handbooks, Third Edition CRC Press

In the CRC Handbook of Laser Science and Technology: Supplement 2, experts summarize the discovery and properties of new optical materials that have appeared since the publication of Volumes III-V. Included are the latest advances in optical

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crystals, glasses and plastics, laser host materials, phase conjugation materials, linear electrooptic materials, nonlinear optical materials, magneto optic materials, elastooptic materials, photorefractive materials, liquid crystals, and thin film coatings. The book also includes expanded coverage of optical waveguide materials and new sections on optical liquids, glass fiber lasers, diamond optics, and gradient index materials.

Appendices include Designation of Russian Optical Glasses; Abbreviations, Acronyms, and Mineralogical or Common Names for Optical Materials; and Abbreviations for Methods of Preparing Optical Materials. Extensive tabulations of materials properties with references to the primary literature are provided throughout the supplement. The CRC Handbook of Laser Science and Technology: Supplement 2 represents the latest volume in the most comprehensive, up-to-date listing of the properties of optical materials for lasers and laser systems, making it an essential reference work for all scientists and engineers working in laser research and development.

Handbook of Chromatography: Analysis of Lipids provides a valuable review of state-of-the-art applications of chromatographic techniques (TLC, GC, HPLC) and other analytical techniques. Much of this volume is devoted to applications of HPLC (including supercritical fluid chromatography) in the analysis of lipids such as fatty acids, oxygenated fatty acids, enantiomeric acyl- and alkylglycerols, and lipoproteins. The handbook also provides extensive coverage of applications of combinations of various chromatographic techniques used in the analysis of ozonides, anacardic acids,

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glycerophospholipids, products of lipolysis, artifacts and contaminants in edible fats, acylated proteins, non-caloric lipids, lipophilic vitamins, acyl-Coenzyme A thioesters, dolichols, mycolic acids, technical fats and fat products, and liposomes. Handbook of Chromatography: Analysis of Lipids will be a useful reference for oil chemists, biochemists, fat science technologists, and other scientists involved in lipid research. Dietary fiber is widely recognized as an essential element of good nutrition. In fact, research on the use of fiber in food science and medicine is being conducted at an incredible pace. CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition explores the chemistry, analytical methodologies, physiological and biochemical aspects, clinical and epidemiological studies, and consumption patterns of dietary fiber. Featuring new chapters and tables, in addition to updated sections, the third edition of this popular book includes important information that has become available since the publication of the second edition. What's new in the Third Edition? o Definitions and consumption of dietary fiber from 1992-2000 o A new chapter on the physical chemistry of dietary fiber o Updated dietary fiber values for common foods o New table: Tartaric Acid Content of Foods o Coverage of non-plant food fibers, such as chitin and chitosan o An entire section devoted to the effect of whole grains, cereal fiber, and phytic acid on health o Discussion of the interaction of fiber and phytochemicals Quickly retrieve and understand current data with the book's concise, easy-to-read tables and definitions. Covering all aspects of dietary fiber, including chemistry and definitions, analytical

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procedures, and basic physiological functions, the CRC Handbook of Dietary Fiber in Human Nutrition provides you with a unique collection of dietary fiber information unlike that found in any other book.

The second edition of this best-selling handbook is bigger, more comprehensive, and now completely current. In addition to thorough updates to the discussions featured in the first edition, this edition includes 66 new chapters that reflect recent developments, new applications, and emerging areas of interest. Within the handbook's 145 critically r Many features have made the Composite Index for CRC Handbooks, 3rd Edition an important reference resource for your institution. Its comprehensive index system facilitates access to over 140,000 pages of scientific information in more than 300 CRC Handbooks, thereby saving researchers valuable time. The Composite Index on CD-ROM taps into the power of automation and streamlines the research process even further through its superior word search, word sorting, browsing, and output capabilities. Now, Composite Index for CRC Handbooks, 3rd Edition: 1991 Supplement is available. This supplement consists of a bound volume featuring 51 additional back-of-the-book indexes from CRC Handbooks covering the fields of physical science, life science, and engineering. These individual indexes have been merged to form one unified index that provides some 42,000 new index entries, which will help researchers find information from an additional 28,000 pages in CRC Handbooks. An updated CD-ROM disk (Version 1.1) is included with the bound volume. On the CD-ROM, the new index

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entries featured in the bound volume have been integrated with entries from the original Composite Index for CRC Handbooks, 3rd Edition, providing a single source for automated searches. The software accompanying the CD-ROM has also been enhanced. The program's book decoding feature is improved, and an LOC field is now included on the bibliographic screen for libraries to provide their call numbers (or other information) using up to 50 characters. A separate program (included with the software) enables you to manually type call numbers into the LOC field. With 42,000 new index entries and exciting enhancements to the CD-ROM program, keep your Composite Index for CRC Handbooks, 3rd Edition up-to-date by purchasing the 1991 Supplement today.

"If you can't beat it, eat it." Words of wisdom from the author of this portable guide that emphasizes finding practical uses for weeds rather than waging pesticidal war on them. CRC Handbook of Edible Weeds contains detailed descriptions and illustrations of 100 edible weeds, representing 100 genera of higher plant species. Some of the species are strictly American, but many are cosmopolitan weeds. Each account includes common names recognized by the Weed Science Society of America, standard Latin scientific names, uses, and distribution (geographic and ecological). Cautionary notes are included regarding the potential allergenic or other harmful properties of many of the weeds. CRC Handbook of Edible Weeds is an excellent volume for botanists, plant scientists, horticulturalists, herbalists, and others interested in the edibility and practical

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uses of weeds.

This student edition features over 50 new or completely revised tables, most of which are in the areas of fluid properties and properties of solids. The book also features extensive references to other compilations and databases that contain additional information.

Boundary problems constitute an essential field of common mathematical interest, they lie in the center of research activities both in analysis and geometry. This book encompasses material from both disciplines, and focuses on their interactions which are particularly apparent in this field. Moreover, the survey style of the contributions makes the topics accessible to a broad audience with a background in analysis or geometry, and enables the reader to get a quick overview.

Introducing the New Standard in Research Indexes Over the years, CRC Handbooks have gained a reputation for providing valuable, up-to-date scientific data covering a broad range of topics from many different fields. In 1971, CRC Press published the first Composite Index for CRC Handbooks so that Handbook users could quickly find information in the Handbooks without spending hours searching through library stacks. A second edition of the Composite Index was published in 1977. Now, CRC Press is proud to announce the Composite Index for CRC Handbooks, 3rd Edition, which covers most Handbooks published since 1977, in addition to many of the earlier Handbooks. We've taken great care to ensure the accuracy of the new three-volume, 3000 page Index, while at the same time utilizing new technology that enables the entire Index to be stored and accessed on a CD-ROM included with the hardbound volumes. We've also added a new FAX Delivery Service to provide pages from CRC Handbooks that may not be available from the library. Annual supplements on a subscription

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may cancel your subscription at any time.

Also available, [1991- ], in CD-Rom version, entitled: Composite index for CRC handbooks. Thermoelectrics is the science and technology associated with thermoelectric converters, that is, the generation of electrical power by the Seebeck effect and refrigeration by the Peltier effect. Thermoelectric generators are being used in increasing numbers to provide electrical power in medical, military, and deep space applications where combinations of their desirable properties outweigh their relatively high cost and low generating efficiency. In recent years there also has been an increase in the requirement for thermoelectric coolers (Peltier devices) for use in infrared detectors and in optical communications. Information on thermoelectrics is not readily available as it is widely scattered throughout the literature. The Handbook centralizes this information in a convenient format under a single cover. Sixty of the world's foremost authorities on thermoelectrics have contributed to this Handbook. It is comprised of fifty-five chapters, a number of which contain previously unpublished material. The contents are arranged in eight sections: general principles and theoretical considerations, material preparation, measurement of thermoelectric properties, thermoelectric materials, thermoelectric generation, generator applications, thermoelectric refrigeration, and applications of thermoelectric cooling. The CRC Handbook of Thermoelectrics has a broad-based scope. It will interest researchers, technologists, and manufacturers, as well as students and the well-informed, non-specialist reader.

The most important tables from every engineering discipline in one volume collected from the best, most authoritative references in the business--it's now more than wishful thinking. The CRC Handbook of Engineering Tables makes it a reality. The most frequently consulted tables

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and figures from CRC's acclaimed engineering handbooks are gathered together. Optofluidics is an emerging field that involves the use of fluids to modify optical properties and the use of optical devices to detect flowing media. Ultimately, its value is highly dependent on the successful integration of photonic integrated circuits with microfluidic or nanofluidic systems. Handbook of Optofluidics provides a snapshot of the state of the field.

This new compilation focuses on 386 of the most commonly used pesticides recently registered by the EPA. The structural and molecular formulas are listed for each chemical along with its Chemical Abstracts Registry Number (CAS RN) and, when available, its number in the Merck Index (Eleventh Edition). This invaluable reference provides the various English and foreign chemical names, trivial names, synonyms, and trade names for each pesticide. A handy chemical name index also presents this information in a readily accessible format. The pesticide's physical properties are summarized and data pertaining to the compound's acute toxicity in various species are given. This data has been drawn from the Registry of Toxic Effects of Chemical Substances. Finally, for each of the pesticide chemicals there is a reference to the appropriate Section of the Code of Federal Regulations, 40 CFR 180, where the various crop tolerances may be located.

Mirroring the growth and direction of science for a century, the Handbook, now in its 93rd edition, continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data, its usefulness spans every discipline. This edition includes 17 new tables in the Analytical Chemistry section, a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables. The book puts physical formulas and mathematical tables used in labs every day

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within easy reach. The 93rd edition is the first edition to be available as an eBook. Winner of an Outstanding Academic Title Award for 2011! Researchers in organic chemistry, chemical engineering, pharmaceutical science, forensics, and environmental science make routine use of chemical analysis, but the information these researchers need is often scattered in different sources and difficult to access. The CRC Handbook of Basic Tables "Let food be your medicine, medicine your food."-Hippocrates, 2400 B.C. When the "Father of Medicine" uttered those famous words, spices were as important for medicine, embalming, preserving food, and masking bad odors as they were for more mundane culinary matters. Author James A. Duke predicts that spices such as capsicum, cinnamon, garlic, ginger Designed specifically with physicians, pharmacologists, and other members of the health care delivery team in mind, the CRC Desk Reference of Clinical Pharmacology features more than 2,000 entries appearing in three formats: Short reviews: these present important topics of clinical pharmacology, such as pharmacokinetic basis of therapeutics, pharmacodynamic principles, and drug-drug interactions. Major areas of therapeutics including antiemetic drugs, antihistaminics, calcium-channel blocking agents, and nonsteroidal anti-inflammatory agents are reviewed. Abstract length entries: provide short descriptions of all medications in use today Short dictionary style entries: concise, one sentence descriptions of the exact therapeutic use of each medication. Each entry gives:

Although easily available and searchable on-line, the CFR 21 is a vast document covering a wide range of subjects but contains no index. And sifting through the results of a simple search does not always provide the information you need in the context you need it. After years of frustration you may have tried to construct your own index, only to ha

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This handbook covers the general area of lubrication and tribology in all its facets: friction, wear lubricants (liquid, solid, and gas), greases, lubrication principles, applications to various mechanisms, design principles of devices incorporating lubrication, maintenance, lubrication scheduling, and standardized tests; as well as environmental problems and conservation. The information contained in these two volumes will aid in achieving effective lubrication for control of friction and wear, and is another step to improve understanding of the complex factors involved in tribology. Both metric and English units are provided throughout both volumes. CRC Handbook of Food, Drug, and Cosmetic Excipients provides a comprehensive summary of toxicological issues regarding inactive ingredients in pharmaceutical products, cosmetic products, and food additives. Background information on regulations and labeling requirements for each type of product is provided, and 77 articles critically review human and animal data pertinent to a variety of agents and makes judgments regarding the clinical relevance. The book also identifies at-risk populations, such as neonates, patients with renal failure, and atopic patients. Inactive common pharmaceutical agents and/or foods containing certain ingredients are listed to help physicians counsel hypersensitive patients who must avoid products containing these excipients.

Volume III extends this handbook series to cover new developments and topics in tribology that have occurred during the past decade. It includes in-depth discussions on revolutionary magnetic bearings used in demanding applications in compressors, high-speed spindles, and aerospace equipment. Extensive coverage is given to tribology developments in office machines and in magnetic storage systems for computers. Monitoring sensors are addressed in the first chapter, followed by chapters on specific monitoring techniques for automobiles,

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diesels, and rotating machines. One chapter is devoted to procedures used for tracking the remaining life of lubricants. Synthetic lubricants are discussed by outstanding specialists in this rapidly developing field. Synthetics are increasingly important in widely diverse areas, including compressors using the new ozone-layer-friendly refrigerants and a variety of extreme-temperature and environmentally-sensitive applications. Water- and gas-lubricated bearings are given similar attention. The contributors also develop a new, unified coverage for fatigue life of ball and roller bearings; for design and application of porous metal bearings; for self-contained lubrication, involving oil rings, disks, and wicks; and for plastic bearings. Each of these classes of bearings are used by the millions daily throughout industry. The three-volume handbook is an essential reference to tribologists and lubrication, mechanical, and automotive engineers. It is invaluable to lubricant suppliers; bearing companies; those working in the aerospace industry; and anyone concerned with machine design, machinery wear, and maintenance.

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.

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