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REID SKYLAR

This book serves as a primary textbook for environmental site investigation and remediation of subsurface soil and groundwater. It introduces concepts and principles of field investigative techniques to adequately determine the extent of contamination in the subsurface for the selection of cleanup alternatives. It then focuses on practical calculations and skills needed to design and operate remediation systems that will both educate students and be useful for entry-level professionals in the field. Features: • Examines the practical aspects of investigating and cleaning up contaminated soil and groundwater • Contains scenarios, illustrations, equations, and example problems with discussions that illustrate various practical situations and interpret the results • Includes end-of-chapter problems to reinforce student learning • Provides a regulatory and risk analysis context, as well as public and community involvement aspects • Discusses sustainability and performance assessment of the remediation methods presented Site Assessment and Remediation for Environmental Engineers provides upper-level undergraduate and graduate students with practical, project-oriented knowledge of how to investigate and clean up a site contaminated with chemicals and hazardous waste.

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

This is latest edition of the NIOSH Pocket Guide to Chemical Hazards and presents information taken from the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, from National Institute for Occupational Safety and Health (NIOSH) criteria documents and Current Intelligence Bulletins, and from recognized references in the fields of industrial hygiene, occupational medicine, toxicology, and analytical chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices. The information in the Pocket Guide includes chemical structures or formulas, identification codes, synonyms, exposure limits, chemical and physical properties, incompatibilities and reactivities, measurement methods, respirator selections, signs and symptoms of exposure, and procedures for emergency treatment. The information assembled in the original 1978 printing of the Pocket Guide was the result of the Standards Completion Program, a joint effort by NIOSH and the Department of Labor to develop supplemental requirements for the approximately 380 workplace environmental exposure standards adopted by the Occupational Safety and Health Administration (OSHA) in 1971. Following are changes that were made for this edition (2005-149) of the Pocket Guide: * New layout for the Chemical Listing section. * Recommendations for particulate respirators have been revised to incorporate "Part 84" terminology. See "Recommendations for Respirator Selection" on page xiv for a more thorough explanation of these changes. * The Synonym and Trade Name Index has been expanded. This index is now called the Chemical, Synonym, and Trade Name Index (page 383). * Some ID and Guide Numbers were changed to reflect changes made in the 2004 Emergency Response Guidebook (http://hazmat.dot.gov/pubs/erg/gydebook.htm). * Appendix E (page 351) has been revised. It now contains OSHA respirator requirements for 28 chemicals or hazardous substances that were identified in the preamble to the OSHA Respiratory Protection Standard (29 CFR 1910.134). * Other minor technical changes have also been made since the February 2004 edition. (For the most current information and updates, consult the electronic version on the NIOSH Web site: http://www.cdc.gov/niosh/npg/npg.html.) Following are changes made for this the 3rd printing of this edition of the Pocket Guide: * Changes were made to reflect the new OSHA PEL for hexavalent chromium. * The NIOSH REL for coal mine dust was added to the coal dust entry. * A few other minor technical changes have been made.

A practical guide to industrial safety. It seeks to assist specialists in managing operations in industrial settings, including high-risk personal exposure such as inhalation hazards and direct chemical contact. It covers hazards in the chemical process industries, inhalation hazards in refineries, indoor air quality management, personal protective

Environmental forensics is the application of scientific techniques for the purpose of identifying the source and age of a contaminant. Over the past several years, this study has been expanding as a course of study in academia, government and commercial markets. The US Environmental Protection Agency (EPA), Federal Bureau of Investigation (FBI), and Federal Emergency Management Agency (FEMA) are among the governmental agencies that utilize the study of environmental forensics to ensure national security and to ensure that companies are complying with standards. Even the International Network for Environmental Compliance and Enforcement (INECE), a group supported by the European Commission and the World Bank, utilizes the study of environmental forensics as it applies to terror threats. This title is a hands-on guide for environmental scientists, engineers, consultants and industrial scientists to identify the origin and age of a contaminant in the environment and the issues involved in the process. An expansion of the authors' first title with Academic Press, Introduction to Environmental Forensics, this is a state-of-the-art reference for those exploring the scientific techniques available. Up-to-date compendium for referencing forensic techniques unique to particular contaminants. International scientific unit system Contributors from around the world providing international examples and case studies.

Many chemical compounds present in workplace settings can produce a number of impairments in the human nervous system. As the situations in which neurotoxic agents have been recognized in exposed

workers has grown, so has the importance of occupational neurotoxicology as a specialty. Addressing some of the most vital concerns in the field, Occupational Neurotoxicology discusses: Neurotoxic agents commonly encountered in the workplace Signs and symptoms of neurotoxicity and of the factors affecting neurotoxic effects Biological monitoring and the use of biomarkers Epidemiological methods and clinical approaches to occupational neurotoxicology The analysis of behavioral, electrophysiological, and imaging techniques in the diagnosis of neurotoxicity Occupational neurotoxicity in developing countries The evaluation and management of occupational illnesses due to neurotoxicity Occupational Neurotoxicology concisely covers important facts on the adverse effects of chemical, biological, and physical agents that can impair or alter the structure of the nervous system. Professionals and researchers in the fields of occupational medicine, toxicology, epidemiology, neurology, industrial hygiene, and psychology will all find relevant information on the health problems that can occur from exposure to neurotoxicants.

Put together by a team of scientists, engineers, regulators, and lawyers, the Chromium(VI) Handbook consolidates the latest literature on this topic. The broad scope of this book fills the need for a comprehensive resource on chromium(VI), improving the knowledge of this contaminant at a time when the extent and degree of the problem is still being

The Corrosion Engineering and Cathodic Protection Handbook combines the author's previous three works, Corrosion Chemistry, Cathodic Protection, and Corrosion Engineering to offer, in one place, the most comprehensive and thorough work available to the engineer or student. The author has also added a tremendous and exhaustive list of questions and answers based on the text, which can be used in university courses or industry courses, something that has never been offered before in this format. The Corrosion Engineering and Cathodic Protection Handbook is a must-have reference book for the engineer in the field, covering the process of corrosion from a scientific and engineering aspect, along with the prevention of corrosion in industrial applications. It is also a valuable textbook, with the addition of the questions and answers section creating a unique book that is nothing short of groundbreaking. Useful in solving day-to--day problems for the engineer, and serving as a valuable learning tool for the student, this is sure to be an instant contemporary classic and belongs in any engineer's library.

For more than a quarter century, Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens has proven to be among the most reliable, easy-to-use and essential reference works on hazardous materials. Sittig's 5th Edition remains the lone comprehensive work providing a vast array of critical information on the 2,100 most heavily used, transported, and regulated chemical substances of both occupational and environmental concern. Information is the most vital resource anyone can have when dealing with potential hazardous substance accidents or acts of terror. Sittig's provides extensive data for each of the 2,100 chemicals in a uniform format, enabling fast and accurate decisions in any situation. The chemicals are presented alphabetically and classified as a carcinogen, hazardous substance, hazardous waste, or toxic pollutant. This new edition contains extensively expanded information in all 28 fields for each chemical (see table of contents) and has been updated to keep pace with world events. Chemicals classified as WMD have been included in the new edition as has more information frequently queried by first responders and frontline industrial safety personnel. Sittig’s Handbook is a globally recognized reference source, providing full listings of the 2,000 most common hazardous chemicals – making it the essential handbook for first-line response to chemical spills and day-to-day chemical plant reference. Entries have a full range of synonyms for each chemical, including trade names, to avoid confusion and enable quick and accurate location of the right information. Authoritative and frequently updated, Sittig provides a fully accurate source of information that engineers and emergency response services look to as a highly dependable reference both for emergencies and day-to-day engineering decisions.

The National Institute for Occupational Safety and Health (NIOSH) conducts construction-relevant research activities. From 1996 through 2005, the program focused on four research goals: reducing traumatic injuries and fatalities; reducing exposure to health hazards; reducing major risks associated with musculoskeletal disorders; increasing the understanding of construction industry attributes and factors for improving health and safety outcomes. In this book, the National Research Council evaluates the relevance and impact of the NIOSH Construction Research Program in terms of its research priorities and its connection to improvements in the protection of workers in the workplace. It also assesses the program' s identification and targeting of new research areas, to identify emerging research issues, and to provide advice on ways that the program might be strengthened. The book finds that the efforts of the Construction Research Program have made meaningful contributions to improving construction worker safety and health, and provides overreaching and specific recommendations for continuing progress. While NIOSH cannot set and enforce research-based standards on its own, the program can be expected to help reduce construction workplace fatalities, injuries, and illnesses through its research, its research dissemination, and transfer into practice.

Gives you quick access to the information you need to recognize and deal with chemical hazards in the workplace. It recommends appropriate actions to take when encountering a potentially hazardous substance, including the latest data on: chemical types and descriptions, health hazards, exposure signs and symptoms, emergency treatment, personal protection, cleanup precautions and much more. Provides key information and data on 677 hazardous chemicals or substances that you may encounter in the work environment. Spiral bound.

Providing a concise, yet comprehensive, reference on all aspects of industrial exposures and toxicants; this book aids toxicologists, industrial hygienists, and occupational physicians to investigate workplace health problems. • Updates and expands coverage with new chapters covering regulatory toxicology, toxicity testing, physical hazards, high production volume (HPV) chemicals, and workplace drug use • Includes information on occupational and environmental sources of exposure, mammalian toxicology, industrial hygiene, medical management and ecotoxicology • Retains a succinct chapter format that has become the hallmark for the previous editions • Distils a vast amount of information into one resource for both academics and professionals

The Engineer's Clean Air Handbook is written for engineers but in a language which should be understandable to anyone who may be directly involved in or concerned about atmospheric contamination. It concentrates on achieving clean air and on the more general aspects of pollution. The book begins with the description and make-up of the atmosphere, the size and nature of the atmospheric content, sources of contamination, and risk assessment from atmospheric contamination. Subsequent sections focus on air filters and filtration systems, instrumentation for monitoring and control of atmospheric con-

tamination, ventilation and the quality of breathing air, and the relationship of atmospheric contamination and health. Environmentalists, engineers, and ecologists will find the book useful.

The Regulated Chemicals Directory"lM is meant to be a convenient source of information for everyone who needs to keep up--to-date regarding the regulations and recommendations that pertain to chemical substances. The RCDTM is designed to be the first reference book to consult when beginning compliance efforts. Every regulatory or advisory list used in the RCDTM is keyed to its source, to help readers who need more detailed information on regulations, recommendations, or guidelines readily locate source documents. Some organizations now center their compliance efforts on computerized information stored in cross-referenced databases. A unique feature of the RCDTM is the availability of an electronic version suitable for use on IBM-compatible personal computers, download onto mainframes and CD-ROM players. Both the print and electronic versions are updated with the same timeliness. For more information on the electronic versions of the Regulated Chemicals DirectoryTM, contact Chapman & Hall directly (One Penn Plaza, New York, NY 10119, fax-212-564-1505). Many companies working on product development need information on what may be regulated in the future. The RCDTM provides selected information on pending regulations and in--progress testing lists, which can provide a starting place for tracking future regulatory considerations. Information for the RCDTM is continually gathered and updated. Suggestions from readers for information that should be added to the RCDTM or for other ways to improve the book are welcomed by Chapman & Hall. - Patricia L. Dsida, Pres. ChemADVISOR® , Inc. ix Part A. Chemical Lists and Indexes Section 1.

A source of medical, legal and regulatory information on the toxicology of human exposure to metals and chemicals, this three--volume set is designed to be the first resource professionals turn to when formulating an opinion and developing a programme. It is annually updated to provide the latest information on over 150 chemical agents in a standar

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This study, commissioned by the National Aeronautics and Space Administration (NASA), examines the role of robotic exploration missions in assessing the risks to the first human missions to Mars. Only those hazards arising from exposure to environmental, chemical, and biological agents on the planet are assessed. To ensure that it was including all previously identified hazards in its study, the Committee on Precursor Measurements Necessary to Support Human Operations on the Surface of Mars referred to the most recent report from NASA's Mars Exploration Program/ Payload Analysis Group (MEPAG) (Greeley, 2001). The committee concluded that the requirements identified in the present NRC report are indeed the only ones essential for NASA to pursue in order to mitigate potential hazards to the first human missions to Mars.

The NIOSH Pocket Guide to Chemical Hazards presents information taken from the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, from National Institute for Occupational Safety and Health (NIOSH) criteria documents and Current Intelligence Bulletins, and from recognized references in the fields of industrial hygiene, occupational medicine, toxicology, and analytical chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices. The information in the Pocket Guide includes chemical structures or formulas, identification codes, synonyms, exposure limits, chemical and physical properties, incompatibilities and reactivities, measurement methods, respirator selections, signs and symptoms of exposure, and procedures for emergency treatment.

U.S. Navy (Navy) operations require the use of chrome (Cr) compounds in its various defense program activities. However, certain forms of Cr have been shown to cause acute and chronic toxicity. A reduction in the OSHA PEL from 0.5 mg/m3 to 0.0005 mg/m3 has been proposed. Accordingly, the Navy and the Department of Defense (DoD) are concerned over the potential for any adverse affect occurring among the exposed personnel. Currently available chrome toxicity information were reviewed and assessed in this report. Existing epidemiological data and pharmacokinetic models suggest that cancer potency may vary with solubility and form of hexavalent chrome. A new analytical method, ID 215, is now available that identifies hexavalent Cr at the proposed levels. Personal samples analyzed using this method were obtained from the Navy Occupational Exposure Database and evaluated. Estimated potential risk to Naval personnel from hexavalent chrome exposure, assuming no personal protective equipment, were in the 1/10000 range for the majority of the processes monitored. The highest risks calculated were in the 1/100 to 1/1000 range for abrasive blasting using mineral spirits and sand. Several operations, however, would require the use of respiratory protection and, therefore, risk would be expected to be appreciably less. In general, exposure levels analyzed using ID-2I5 method were generally one order of magnitude below current standards.

The Construction Chart Book presents the most complete data available on all facets of the U.S. construction industry: economic, demographic, employment/income, education/training, and safety and health issues. The book presents this information in a series of 50 topics, each with a description of the subject matter and corresponding charts and graphs. The contents of The Construction Chart Book are relevant to owners, contractors, unions, workers, and other organizations affiliated with the construction industry, such as health providers and workers compensation insurance companies, as well as researchers, economists, trainers, safety and health professionals, and industry observers.

Written by an internationally recognized

group of editors and contributors, Handbook of Elemental Speciation, Volume 2 provides a comprehensive, cross-disciplinary presentation of the analytical techniques involved in speciation. Comprehensive coverage of key elements and compounds in situ Addresses the analysis and impact of these elements and compounds, e.g. arsenic, lead, copper, iron, halogens, etc., in food, the environment, clinical and occupational health Detailed methodology and data are reported, as well as regulatory limits Includes general introduction on the impact in these key areas

This authoritative text on occupational lung disorders builds upon the fundamentals, including clinical, epidemiological, and predictive approaches. It discusses interstitial and malignant diseases, airways diseases, and other respiratory issues, such as diving, working at high altitudes, and abnormal sleep conditions. It also covers related long-term conditions, such as asthma and COPD. This edition has been completely revised and brought up to date for all physicians dealing with pulmonary disorders caused by the environment or the workplace.

Nanotechnology has a great potential for providing efficient, cost-effective, and environmentally acceptable solutions to face the increasing requirements on quality and quantity of fresh water for industrial, agricultural, or human use. Iron nanomaterials, either zerovalent iron (nZVI) or iron oxides (nFeOx), present key physicochemical properties that make them particularly attractive as contaminant removal agents for water and soil cleaning. The large surface area of these nanoparticles imparts high sorption capacity to them, along with the ability to be functionalized for the enhancement of their affinity and selectivity. However, one of the most important properties is the outstanding capacity to act as redox-active materials, transforming the pollutants to less noxious chemical species by either oxidation or reduction, such as reduction of Cr(VI) to Cr(III) and dehalogenation of hydrocarbons. This book focuses on the methods of preparation of iron nanomaterials that can carry out contaminant removal processes and the use of these nanoparticles for cleaning waters and soils. It carefully explains the different aspects of the synthesis and characterization of iron nanoparticles and methods to evaluate their ability to remove contaminants, along with practical deployment. It overviews the advantages and disadvantages of using iron-based nanomaterials and presents a vision for the future of this nanotechnology. While this is an easy--to-understand book for beginners, it provides the latest updates to experts of this field. It also opens a multidisciplinary scope for engineers, scientists, and undergraduate and postgraduate students. Although there are a number of books published on the subject of nanomaterials, not too many of them are especially devoted to iron materials, which are rather of low cost, are nontoxic, and can be prepared easily and envisaged to be used in a large variety of applications. The literature has scarce reviews on preparation of iron nanoparticles from natural sources and lacks emphasis on the different processes, such as adsorption, redox pathways, and ionic exchange, taking place in the removal of different pollutants. Reports and mechanisms on soil treatment are not commonly found in the literature. This book opens a multidisciplinary scope for engineers and scientists and also for undergraduate or postgraduate students.