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Environmental Chemistry is used in the method of protection of groundwater which is polluted by soil, dust, and the waste particles. It is useful for the protection of surface water from the contaminants

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Chemistry through the process of sedimentation, bacteriological, and radiation. The quality of the soil is protected by the methods of environmental chemicals such as by the use of indicators like ecotoxicological and chemical.

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Chemistry and provides integrated tools in explaining complex chemical problems of environmental importance.

Key Concepts in Environmental Chemistry provides a modern and concise introduction to environmental chemistry principles and the dynamic nature of environmental systems. It offers an intense, one-semester examination of selected concepts encountered in this field of study and provides integrated tools in explaining complex chemical problems of environmental importance. Principles typically covered in more comprehensive textbooks are well integrated into general chapter topics and application areas. The goal of this textbook is to provide students with a valuable resource for learning the basic concepts of environmental chemistry

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from an easy to follow, condensed, application and inquiry-based perspective. Additional statistical, sampling, modeling and data analysis concepts and exercises will be introduced for greater understanding of the underlying processes of complex environmental systems and fundamental chemical principles. Each chapter will have problem-oriented exercises (with examples throughout the body of the chapter) that stress the important concepts covered and research applications/case studies from experts in the field. Research applications will be directly tied to theoretical concepts covered in the chapter. Overall, this text provides a condensed and integrated tool for student learning and covers key concepts in the rapidly developing field of environmental chemistry. Intense, one-semester approach to learning Application-based approach to learning theoretical concepts In depth analysis of field-based

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and in situ analytical techniques

Introduction to environmental modeling

Basic Concepts of Environmental Chemistry, Second Edition provides a theoretical basis for the behavior and biological effects of natural chemical entities and contaminants in natural systems, concluding with a practical focus on risk assessment and the environmental management of chemicals. The text uses molecular properties such as pola

Basic Concepts of Environmental Chemistry, Second Edition provides a theoretical basis for the behavior and biological effects of natural chemical entities and contaminants in natural systems, concluding with a practical focus on risk assessment and the environmental management of chemicals. The text uses molecular properties such as polarity, water

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solubility, and vapor pressure as the starting point for understanding the environmental chemistry of various contaminants in soil, water, and the atmosphere. It explains biological processes such as respiration and photosynthesis and their relationship to greenhouse gases. The book then introduces environmental toxicology and describes the distribution, transport, and transformation of contaminants, including PCBs and dioxins, plastics, petroleum and aromatic hydrocarbons, soaps and detergents, and pesticides. The author highlights the relationship between specific chemical properties and their environmental and biological effects. Other topics discussed include partition behavior, fugacity, and genotoxicity, particularly involving carcinogens. The second edition updates the contents and incorporates the latest advances in the field since the 1997 edition was published. It presents an entirely new

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Chapter on metals, which underlines the correlation between metallic properties and their behavior in the environment, as well as new sections on radionuclides and acid drainage water. The chapter on atmospheric chemistry and pollution has been substantially expanded including photochemical smog, the Greenhouse Effect, and pollution processes in the atmosphere and acid rain. The author also adds recent approaches to ecotoxicology, ecological, and human risk assessments to include the probabilistic approach. Basic Concepts of Environmental Chemistry, Second Edition is a practical textbook for teaching students the basic concepts of chemistry in the framework of the environment and a practical reference for anyone involved in the management and disposal of industrial chemicals and emissions, occupational health and safety, and the protection of the natural

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The third edition of *Chemical Fate and Transport in the Environment*—winner of a 2015 Textbook Excellence Award (Texty) from The Text and Academic Authors Association—explains the fundamental principles of mass transport, chemical partitioning, and chemical/biological transformations in surface waters, in soil and groundwater, and in air. Each of these three major environmental media is introduced by descriptive overviews, followed by a presentation of the controlling physical, chemical, and biological processes. The text emphasizes intuitively based mathematical models for chemical transport and transformations in the environment, and serves both as a textbook for senior undergraduate and graduate courses in

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environmental science and engineering, and as a standard reference for environmental practitioners. Winner of a 2015 Texty Award from the Text and Academic Authors Association Includes many worked examples as well as extensive exercises at the end of each chapter Illustrates the interconnections and similarities among environmental media through its coverage of surface waters, the subsurface, and the atmosphere Written and organized concisely to map to a single-semester course Discusses and builds upon fundamental concepts, ensuring that the material is accessible to readers who do not have an extensive background in environmental science

Professionals and students who come from disciplines other than chemistry need a concise yet reliable guide that explains key concepts in environmental chemistry, from

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the fundamental science to the necessary calculations for applying them. Updated and reorganized, Applications of Environmental Aquatic Chemistry: A Practical Guide, Third Edition provides the essential background for understanding and solving the most frequent environmental chemistry problems. Diverse and self-contained chapters offer a centralized and easily navigable framework for finding useful data tables that are ordinarily scattered throughout the literature. Worked examples provide step-by-step details for frequently used calculations, drawing on case histories from real-world environmental applications. Chapters also offer tools for calculating quick estimates of important quantities and practice problems that apply the principles to different conditions. This practical guide provides an ideal basis for self-study, as well as short courses involving the movement and fate of contaminants in the

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Chemistry. In addition to extensive reorganization and updating, the Third Edition includes a new chapter, Nutrients and Odors: Nitrogen, Phosphorus, and Sulfur, two new appendices, Solubility of Slightly Soluble Metal Salts and Glossary of Acronyms and Abbreviations Used in this Book, and new material and case studies on remediation, stormwater management, algae growth and treatment, odor control, and radioisotopes.

The standard-setting classic just got better! Completely revised and updated since the publication of the sixth edition, Environmental Chemistry, Seventh Edition contains eight new chapters, with significant emphasis on industrial ecology as it relates to the emerging area of "green" chemistry. It also discusses the concept of the anthrosphere as a distinct sphere of the environment. The new chapters in the

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Seventh Edition include: The Anthrosphere, Industrial Ecosystems, and Environmental Chemistry Principles of Industrial Ecology Industrial Ecology, Resources, and Energy Industrial Ecology for Waste Minimization, Utilization, and Treatment Chemical Analysis of Water and Wastewater Chemical Analysis of Wastes and Solids Air and Gas Analysis Chemical Analysis of Biological Materials Xenobiotics Many professionals in environmental chemistry today began their studies with this definitive textbook. Now this benchmark resource has even more to offer. It gives your students a basic understanding of the science and its applications. In addition to providing updated materials in this rapidly developing field, the Seventh Edition emphasizes the major concepts essential to the practice of environmental chemistry at the beginning of the new millennium.

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As the author states in his Preface, this book is written at a time when scientific and lay communities recognize that knowledge of environmental chemistry is fundamental in understanding and predicting the fate of pollutants in soils and waters, and in making sound decisions about remediation of contaminated soils. Environmental Soil Chemistry presents the fundamental concepts of soil science and applies them to environmentally significant reactions in soil. Clearly and concisely written for undergraduate and beginning graduate students of soil science, the book is likewise accessible to all students and professionals of environmental engineering and science. Chapters cover background information useful to students new to the discipline, including the chemistry of inorganic and organic soil components, soil acidity and salinity, and ion exchange and redox phenomena. However, discussion also

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Chemistry extends to sorption/desorption, oxidation-reduction of metals and organic chemicals, rates of pollutant reactions as well as technologies for remediating contaminated soils. Supplementary reading lists, sample problems, and extensive tables and figures make this textbook accessible to readers.

Key Features

- * Provides students with both sound contemporary training in the basics of soil chemistry and applications to real-world environmental concerns
- * Timely and comprehensive discussion of important concepts including:
 - * Sorption/desorption
 - * Oxidation-reduction of metals and organics
 - * Effects of acidic deposition and salinity on contaminant reactions
 - * Boxed sections focus on sample problems and explanations of key terms and parameters
 - * Extensive tables on elemental composition of soils, rocks and sediments, pesticide classes, inorganic minerals, and methods of decontaminating soils
 - * Clearly written for

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all students and professionals in environmental science and environmental engineering as well as soil science

Discussing the influence of environmental factors on both living and nonliving entities, this text places special emphasis on human health problems such as mutagenesis, teratogenesis and carcinogenesis, as well as looking at the major global issues of energy conservation, acid rain and greenhouse gases.

Soil and Environmental Chemistry, Second Edition, presents key aspects of soil chemistry in environmental science, including dose responses, risk characterization, and practical applications of calculations using spreadsheets. The book offers a holistic, practical approach to the application of environmental chemistry to soil science and is designed to equip the

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Chemistry reader with the chemistry knowledge and problem-solving skills necessary to validate and interpret data. This updated edition features significantly revised chapters, averaging almost a 50% revision overall, including some reordering of chapters. All new problem sets and solutions are found at the end of each chapter, and linked to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions. There is also additional pedagogy, including key term and real-world scenarios. This book is a must-have reference for researchers and practitioners in environmental and soil sciences, as well as intermediate and advanced students in soil science and/or environmental chemistry. Includes additional pedagogy, such as key terms and real-world scenarios

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Supplemented by over 100 spreadsheets to migrate readers from calculator-based to spreadsheet-based problem-solving that are directly linked from the text Includes example problems and solutions to enhance understanding Significantly revised chapters link to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions

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