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

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stormwater management, algae growth and treatment, odor control, and radioisotopes.

This book provides chemical concepts as well as crucial steps for inorganic water and wastewater treatment. Examples and tools help to understand and to guide through industrial and natural water process engineering. Students in chemical and environmental engineering as well as researchers and professionals benefit from this concise and explanatory book.

Presents aquatic chemistry in a way that is truly useful to those with diverse backgrounds in the sciences. Major improvements to this edition include a complete rewrite of the first three background chapters making them user-friendly. There is less emphasis on mathematics and concepts are illustrated with actual examples to facilitate understanding.

Up until the 1950s, waste disposal meant discharging it to the nearest river, burning it up or shipping it out to sea. Now we are paying the price. Current disposal and cleanup regulations have a different focus: correcting the problems caused by earlier misguided attitudes and maintaining a non-degrading environment. State and Federal clean air an

Tackling environmental issues such as global warming, ozone depletion, acid rain, water pollution, and soil contamination requires an understanding of the underlying science and

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chemistry of these processes in real-world systems and situations. Chemistry for Environmental and Earth Sciences provides a student-friendly introduction to the basic chemistry used for the mitigation, remediation, and elimination of pollutants. Written and organized in a style that is accessible to science as well as non-science majors, this textbook divides its content into four intuitive chapters: Fire, Earth, Water, and Air. The first chapter explains classical concepts in chemistry that occur in nature such as atomic and molecular structures, chemical bonding and reactions, states of matter, phase transitions, and radioactivity. Subsequent chapters focus on the chemistry relating to the geosphere, hydrosphere, and atmosphere—including the chemical aspects of soil, water, and air pollution, respectively. Chemistry for Environmental and Earth Sciences uses worked examples and case studies drawn from current applications along with clear diagrams and concise explanations to illustrate the relevance of chemistry to geosciences. In-text and end-of-chapter questions with complete solutions also help students gain confidence in applying concepts from this book towards solving current, real-world problems.

The branch of science which focuses on all the chemical and biochemical events which occur in natural places is known as environmental chemistry. It attempts to study the reactions, sources, effects, transport of the chemical species which are present in the soil, water and air. It also deals with the effects of human activities and biological activities on these systems. Environmental chemistry is a multidisciplinary field which encompasses the principles of soil chemistry, atmospheric chemistry and aquatic chemistry. It finds applications in the detection of pollutants such as heavy metals, aromatic carbons and organometallic

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compounds in water bodies and organic systems. Phenomenon such as algal bloom and eutrophication are also studied under it. The topics included in this book on environmental chemistry are of utmost significance and bound to provide incredible insights to readers. Its objective is to give a general view of the different areas of environmental chemistry, and its applications. Those in search of information to further their knowledge will be greatly assisted by this book.

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 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

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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 and in situ analytical techniques Introduction to environmental modeling

Aquatic Ecotoxicology: Advancing Tools for Dealing with Emerging Risks presents a thorough look at recent advances in aquatic ecotoxicology and their application in assessing the risk of well-known and emerging environmental contaminants. This essential reference, brought together by leading experts in the field, guides users through existing and novel approaches to environmental risk assessment, then presenting recent advances in the field of ecotoxicology, including omics-based technologies, biomarkers, and reference species. The book then demonstrates how these advances can be used to design and perform assays to discover the toxicological endpoints of emerging risks within the aquatic environment, such as nanomaterials, personal care products, PFOS and chemical mixtures. The text is an invaluable reference for any scientist who studies the effects of contaminants on organisms that live within aquatic environments. Provides the latest perspectives on emerging toxic risks to aquatic environments, such as nanomaterials, pharmaceuticals, chemical mixtures, and perfluorooctane sulfonate (PFOS) Offers practical guidance on recent advances to help in choosing the most appropriate toxicological assay Presents case studies and information on a variety of reference species to help put the ecotoxicological theory into practical risk assess

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