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Rev. ed. of: Applications of environmental chemistry / Eugene R. Weiner. 2000. Includes bibliographical references and index. ISBN 978-0-8493-9066-1 (alk. paper) 1. Environmental chemistry. 2. Water quality. I. Weiner, Eugene R. Applications of environmental chemistry. II. Title. TD193.W45 2007 628.1 ' 68--dc22 2007048068 Visit the Taylor ...

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Principles of Ion Exchange Ion exchange is a process used extensively in nuclear facilities to control the purity and pH of water by removing undesirable ions and replacing them with acceptable ones. Specifically, it is the exchange of ions between a solid substance (called a resin) and an aqueous solution (reactor coolant or makeup water).

~~CHEMISTRY Module 4 Principles of Water Treatment~~

Principles and Applications of Aquatic Chemistry. New York, NY: Wiley-Interscience, 1993. ISBN: 0471548960. ... V. Redox Chemistry: 19: Introduction to Redox Chemistry (Don't use Tableaux) Chapter 7: 20: Equilibrium Calculations with Redox Reactions: Chapter 7: 21: Redox Potential (pe) as a System Variable:

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.

An excellent knowledge base in soil and water chemistry -the ideal basic text for students of the environmental sciences In Environmental Soil and Water Chemistry, leading soil and water authority V. P. Evangelou presents a complete overview of the principles and applications of soil science, addressing the subject by viewing the interactions between soil and water as a basis for understanding the nature, extent, and treatment of polluted soil and water. The text opens with a discussion of principles-the fundamental tenets of chemistry needed to understand soil and water quality and treatment of polluted resources-and continues with a look at applications for the control and treatment of soil and water. Suitable for advanced undergraduates and beginning graduate students, this extensive, timely volume covers: * Water chemistry and mineral solubility; soil minerals and surface chemical properties and their behavior; and electrochemistry and kinetics * The control of agricultural chemical pollution and land disturbance pollution; colloids and transport processes in soils; and technologies for measuring quality and executing treatment * Specific chemical contaminants and the procedures for their neutralization In a world where chemical pollutants pose a grave threat to the earth's natural resources, Environmental Soil and Water Chemistry offers students both an excellent textbook and a handy reference on the wide spectrum of environmental problems they will confront outside the classroom.

Secondary audience: the book will serve as a reference source for researchers and other professionals in environmental engineering and all areas of aquatic chemistry.

Chemistry of Ozone in Water and Wastewater Treatment book will discuss mechanistic details of ozone reactions as much as they are known to date and apply them to the large body of studies on micropollutant degradation such as pharmaceuticals and endocrine disruptors that is already available.

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

Aquatic Chemistry An Introduction Emphasizing Chemical Equilibria in Natural Waters Second Edition Edited by Werner Stumm and James J. Morgan This second edition of the renowned classic unites concepts, applications, and techniques with the growing amounts of data in the field. Expanded treatment is offered on steady-state and dynamic models employing mass-balance approaches and kinetic information. New chapters address such topics as: environmental aspects of aquatic chemistry; new material on organic compounds in natural water systems; the use of stable and radioactive isotopes in chemical and physical processes; the latest advances in marine chemistry; solid-solution interface; kinetic considerations of equilibria; metal-ligand interactions; and an expanded compilation of thermodynamic data for important reactions in natural water systems. 1981 (0 471-04831-3) Cloth 780 pp. (0 471-09173-1) Paper Chemical Processes in Lakes Edited by Werner Stumm This is a multidisciplinary analysis of recent research on the physical, chemical, and biological processes in aquatic systems. Coverage includes: distribution of elements and compounds in water and sediments; sedimentation and sediment accumulation of nutrients and pollutants; eurtrophication and acidification; atmospheric deposition; redox-related geochemistry and sediment-water exchange of nutrients and metals; sediment dating and paleolimnology; and steady-state and dynamic models. Most chapters focus on the role of biological processes and the coupling of elemental cycles by organisms. 1985 (0 471-88261-5) 435 pp. Principles of Aquatic Chemistry Francois M. M. Morel Here is a quantitative treatment of the chemical principles that govern the composition of natural waters. Features include an in-depth examination of the use of conservation principles in chemical systems, a review of thermodynamic and kinetic principles applicable to aquatic systems, and a novel presentation of a systematic methodology for equilibrium calculations. Detailed coverage is provided on the topic of aquatic chemistry, following the traditional divisions of acid-base, precipitation-dissolution, coordination, redox and surface reactions. 1983 (0 471-08683-5) 446 pp.

Drinking Water Safety: Basic Principles and Applications, examines the technical and scientific, as well as regulatory, ethical, and emerging issues of pollution prevention, sustainability, and optimization for the production and management of safe drinking water to cope with environmental pollution, population growth, increasing demand, terrorist threats, and climate change pressures. It presents a summary of conventional water and wastewater treatment technologies, in addition to the latest processes. Features include: Provides a summary of current and future of global water resources and availability. Summarizes key U.S. regulatory programs designed to ensure protection of water quality and safe drinking water supplies, with details on modern approaches for water utility resilience. Examines the latest water treatment technologies and processes, including separate chapters on evaporation, crystallization, nanotechnology, membrane-based processes, and innovative desalination approaches. Reviews the specialized literature on pollution prevention, sustainability, and the role of optimization in water treatment and related areas, as well as references for further reading. Provides illustrative examples and case studies that complement the text throughout, as well as an appendix with sections on units and conversion constants.

This text provides a detailed introduction to aquatic equilibrium chemistry, calculation methods for systems at equilibrium, applications of aquatic chemistry, and chemical kinetics. Software designed especially for the text allows the reader to build complex models by applying equilibrium calculation principles. Important features include material-specific and integrated case studies, thought-provoking questions, key ideas, and historical sketches.