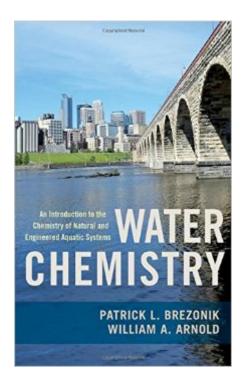
The book was found

Water Chemistry: An Introduction To The Chemistry Of Natural And Engineered Aquatic Systems





Synopsis

Water Chemistry provides students with the tools necessary to understand the processes that control the chemical species present in waters of both natural and engineered systems. After providing basic information about water itself and the chemical composition of water in environmental systems, the text covers the necessary theory (thermodynamics, activity, and kinetics) and background material to solve problems. It emphasizes that both equilibrium and kinetic processes are important in aquatic systems. The book does not merely focus on inorganic constituents, but also on the fate and reactions of organic chemicals. The solving of quantitative equilibrium and kinetic problems using mathematical, graphical, and computational tools is emphasized throughout presentations on acid-base chemistry, complexation of metal ions, solubility of minerals, and oxidation-reduction reactions. The use of these problem-solving tools is then extended in the presentation of topics relevant to natural systems, including dissolved oxygen, nutrient chemistry, geochemical controls on chemical composition, photochemistry, and natural organic matter. The kinetics and equilibria relevant to engineered systems (e.g., chlorination and disinfection chemistry, sorption and surface chemistry) and organic contaminant chemistry are also discussed. Numerous in-chapter examples that show the application of theory and demonstrate how problems are solved using algebraic, graphical, and computer-based techniques are included. Examples are relevant to both natural waters and engineered systems.

Book Information

Hardcover: 808 pages Publisher: Oxford University Press; 1 edition (March 22, 2011) Language: English ISBN-10: 0199730725 ISBN-13: 978-0199730728 Product Dimensions: 9.4 x 1.8 x 6.4 inches Shipping Weight: 2.8 pounds (View shipping rates and policies) Average Customer Review: 4.5 out of 5 stars Â See all reviews (4 customer reviews) Best Sellers Rank: #640,345 in Books (See Top 100 in Books) #112 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology #532 in Books > Textbooks > Engineering > Civil Engineering #757 in Books > Textbooks > Science & Mathematics > Environmental Studies

Customer Reviews

I have taken a number of water chemistry classes during my undergraduate and graduate education. This water chemistry book is best I have used. I have used the Benjamin and the Snoeyink for courses also. This new text is very well written and had numerous worked examples and is written with a stronger background in chemistry. It is written more in the style and background of a chemist and not an engineer. This really allows for a clear explanation and understanding of the material. I constantly find myself coming back to this particular text when I need to do any kind of chemical numerical modeling. It is a great reference to have. It also covers a much broader amount of topics compared to the other industry standard texts. This book is great for someone who needs an all in one general chemistry reference. I would also recommend pairing with the Benjamin if you don't mind purchasing two books as that is a more concise text with other great examples on the most basic concepts of the field.

There are some errors within the book with some of the examples and occasional typos, but overall this is a fantastic water chemistry book. My professor knows the authors and spoke very highly of them, though admitted that she had seen a few mistakes. By "a few" I mean less than 5 throughout the majority of the text.

I loved the class and the book was very helpful! At times it was hard to follow and used different terminology than my professor, but overall it was a good textbook.

In great condition! Huge book.

Download to continue reading...

Water Chemistry: An Introduction to the Chemistry of Natural and Engineered Aquatic Systems Fruit Infused Water: 80 Vitamin Water Recipes for Weight Loss, Health and Detox Cleanse (Vitamin Water, Fruit Infused Water, Natural Herbal Remedies, Detox Diet, Liver Cleanse) Solar PV Powered UV Water Treatment: How to Solar Power UV Water Sterilizing Systems for Drinking Water Onsite How To Stop Poisoning Yourself The Pure & Natural Way: A Guide To Avoiding Processed, Commercialized, Irradiated & Genetically Engineered Food and Products Water-Quality Engineering in Natural Systems: Fate and Transport Processes in the Water Environment Texas Aquatic Science (River Books, Sponsored by The Meadows Center for Water and the Environment, Texa) Water Treatment WSO: Principles and Practices of Water Supply Operations Volume 1 (Water Supply Operations Series) Water Quality & Treatment: A Handbook on Drinking Water (Water Resources and Environmental Engineering Series) Fruit Infused Water: 101 Fruit Infused Water

Recipes for Weight Loss, Detox and Metabolism Boosting Vitamin Water Water is Life: Different Sources of Water and Ways to Conserve Them (For Early Science Learners): Nature Book for Kids - Earth Sciences (Children's Water Books) Photochemistry of Environmental Aquatic Systems (Acs Symposium Series) The Biology of Particles in Aquatic Systems, Second Edition The Wonders of Water - How H2O Can Transform Your Life: Vitality, Detox, Weight Loss, Quality Water, Benefits (Water Health, Vitality, Weight Loss, Fruit Infused Book 1) Natural Remedies for Dogs : 101 Safe & Natural Essential Oils' Remedies for Your DOG: (Natural Remedies For Dogs, Essential Oils Remedies For Dogs, Natural Dog Care, Recipes For Dogs, Home Remedies) Aquaponics: Aquaculture - An Introduction To Aquaculture For Small Farmers (3rd Edition) (aquaponics, hydroponics, permaculture, fish farming, aquaponics system, ecosystem, aquatic) Seeds of Deception: Exposing Industry and Government Lies About the Safety of the Genetically Engineered Foods You're Eating GMO Free Diet: The Ultimate Guide on Avoiding GMO Foods and keeping Your Family Healthy with a GMO Free Diet (GMO, Non GMO Diet, Non GMO Foods, Genetically Engineered Foods, Monsanto) Genetically Engineered Food: Changing the Nature of Nature: What You Need to Know to Protect Yourself, Your Family, and Our Planet Genetically Engineered Food: A Self-Defense Guide for Consumers Genetically Engineered Food: Changing the Nature of Nature Dmca