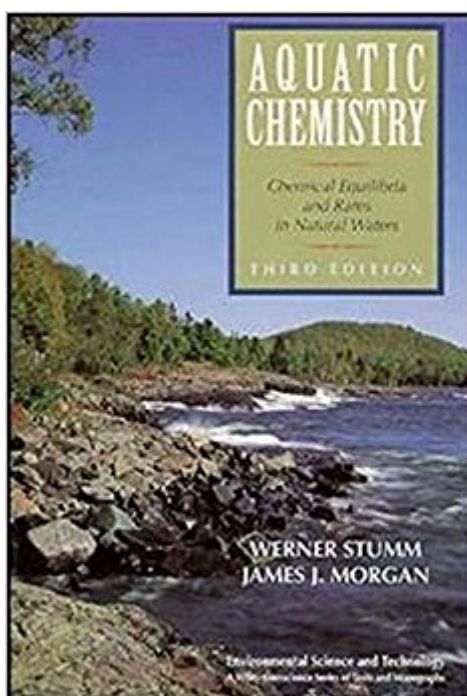


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Aquatic Chemistry: Chemical Equilibria And Rates In Natural Waters



Synopsis

The authoritative introduction to natural water chemistry THIRD EDITION Now in its updated and expanded Third Edition, Aquatic Chemistry remains the classic resource on the essential concepts of natural water chemistry. Designed for both self-study and classroom use, this book builds a solid foundation in the general principles of natural water chemistry and then proceeds to a thorough treatment of more advanced topics. Key principles are illustrated with a wide range of quantitative models, examples, and problem-solving methods. Major subjects covered include: * Chemical Thermodynamics * Solid-Solution Interface and Kinetics * Trace Metals * Acids and Bases * Kinetics of Redox Processes * Dissolved Carbon Dioxide * Photochemical Processes * Atmosphere-Water Interactions * Kinetics at the Solid-Water * Metal Ions in Aqueous Solution Interface * Precipitation and Dissolution * Particle-Particle Interaction * Oxidation and Reduction * Regulation of the Chemical * Equilibria and Microbial Mediation Composition of Natural Waters

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Customer Reviews

The success of the first two editions of Aquatic Chemistry has established it as the classic book on natural water chemistry. This Third Edition incorporates new information, examples, and applications that reflect the latest research findings in the field, with special emphasis on rates of processes and chemical reactions. Like the previous editions, this substantially revised and updated Third Edition has been written to provide readers with a solid understanding of the general chemical principles underlying natural water chemistry: chemical thermodynamics and kinetics, acids and

bases, dissolved carbon dioxide, atmosphere-water interactions, metal ions in aqueous solutions, precipitation and dissolution, oxidation and reduction, equilibria, and the solid-solution interface. Building on this conceptual foundation, Aquatic Chemistry then emphasizes a quantitative treatment of the processes that determine the composition of natural waters. These more advanced topics include trace metals, kinetics of redox processes, photochemical processes, kinetics at the solid-water interface, particle-particle interaction, and the regulation of chemical composition of natural waters. To help the reader grasp the essential elements of aquatic chemistry, the authors illustrate key principles with numerous quantitative examples and a full range of problem-solving methods, including algebraic, graphical, and numerical methods based on digital computation. Designed for both reference as well as classroom use, Aquatic Chemistry, in this new edition, remains the authoritative resource on the fundamentals of natural water chemistry. --This text refers to an out of print or unavailable edition of this title.

The authoritative introduction to natural water chemistry THIRD EDITION Now in its updated and expanded Third Edition, Aquatic Chemistry remains the classic resource on the essential concepts of natural water chemistry. Designed for both self-study and classroom use, this book builds a solid foundation in the general principles of natural water chemistry and then proceeds to a thorough treatment of more advanced topics. Key principles are illustrated with a wide range of quantitative models, examples, and problem-solving methods. Major subjects covered include: * Chemical Thermodynamics * Solid-Solution Interface and Kinetics * Trace Metals * Acids and Bases * Kinetics of Redox Processes * Dissolved Carbon Dioxide * Photochemical Processes * Atmosphere-Water Interactions * Kinetics at the Solid-Water * Metal Ions in Aqueous Solution Interface * Precipitation and Dissolution * Particle-Particle Interaction * Oxidation and Reduction * Regulation of the Chemical * Equilibria and Microbial Mediation Composition of Natural Waters

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