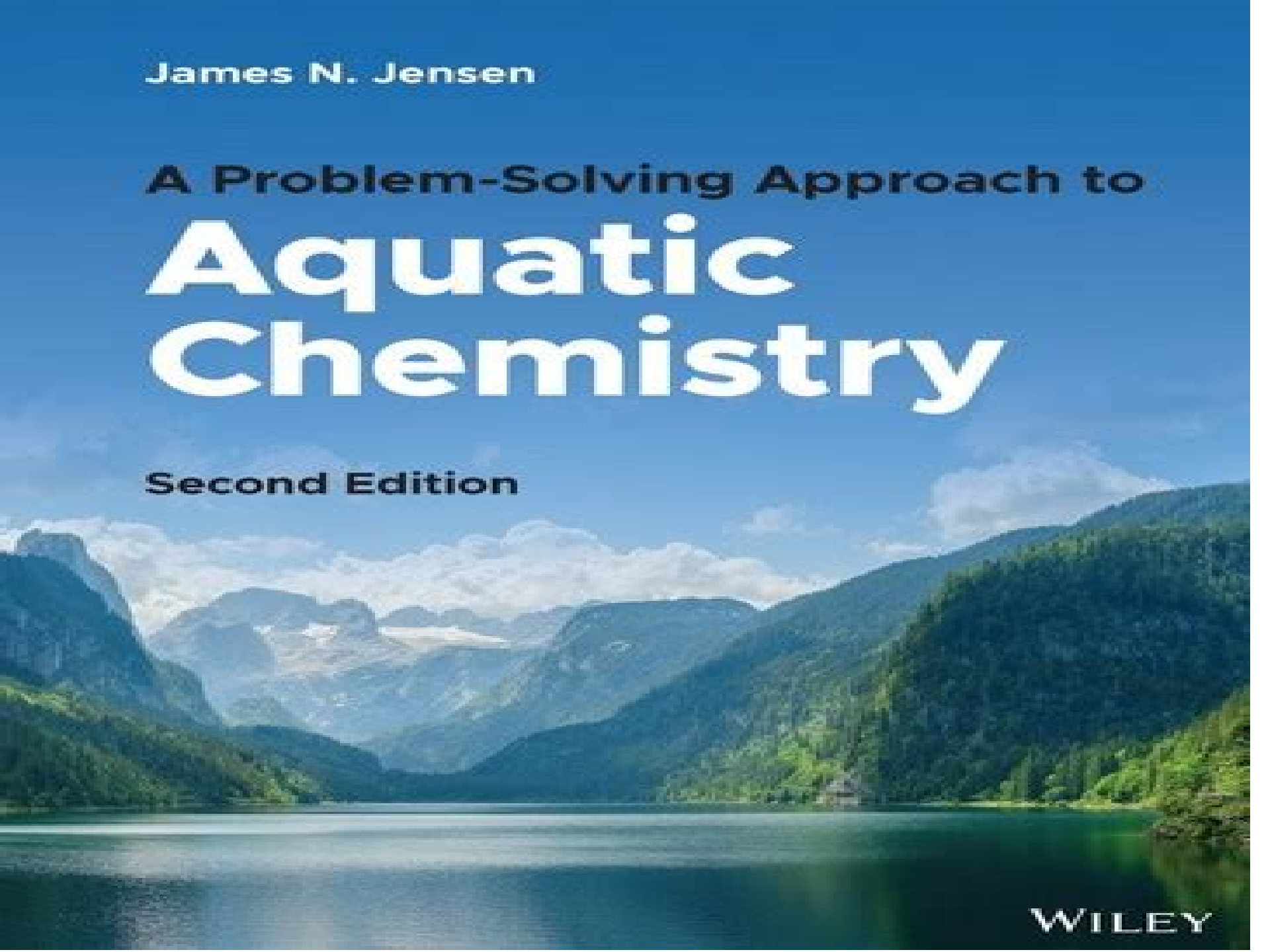




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Environmental Chemistry Stanley Manahan, Stanley E. Manahan, 2009-12-17 The field of environmental chemistry has evolved significantly since the publication of the first edition of Environmental Chemistry Throughout the book s long life it has chronicled emerging issues such as organochloride pesticides detergent phosphates stratospheric ozone depletion the banning of chlorofluorocarbons and greenhouse warming D

Environmental Chemistry Stanley E Manahan, 2017-02-24 With clear explanations real world examples and updated questions and answers the tenth edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science technology and chemistry while introducing the newest innovations in the field The author follows the general format and organization popular in preceding editions including an approach based upon the five environmental spheres and the relationship of environmental chemistry to the key concepts of sustainability industrial ecology and green chemistry This readily adaptable text has been revamped to emphasize important topics such as the world water crisis It details global climate change to a greater degree than previous editions underlining the importance of abundant renewable energy in minimizing human influences on climate Environmental Chemistry is designed for a wide range of graduate and undergraduate courses in environmental chemistry environmental science and sustainability as well as serving as a general reference work for professionals in the environmental sciences and engineering

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overwhelm t **Fundamentals and Processes** Detlev Möller, 2019-02-19 Climate change is a major challenge facing modern society The chemistry of air and its influence on the climate system forms the main focus of this book Vol 1 of Chemistry of the Climate System provides the reader with a physicochemical understanding of atmospheric processes The chemical substances and reactions found in the Earth s atmosphere are presented along with their influence on the global climate system **Mineral Dissolution Kinetics: New Perspectives** Victor W Truesdale, Jim E Greenwood, Tim G Southern, 2025-05-09 Mineral Dissolution Kinetics New Perspectives is at its core a search for a universal rate equation for mineral dissolutions It documents and details the journey undertaken by its authors appealing not only to specialists and experts in related fields but also to novice readers seeking to learn more about this unique subject The book reveals how the compounding of many otherwise subtle misunderstandings has resulted in the under development of fundamental concepts in mineral dissolution kinetics despite its long history of study By examining a wide cross section of existing studies it uncovers these misunderstandings and forges a new way forward Although mineral dissolution kinetics has been immensely important in explaining continental weathering landform development and the maintenance of water supplies for agricultural and human use it remains a critically undervalued field of chemistry It is also foundational to our understanding of the marine environment and serves as an essential tool in the long term storage of CO₂ and radionuclide waste More recently it has helped address the human induced rise in tropospheric CO₂ a key cause of global warming and ocean acidification Complex subjects such as the hydrodynamics of dissolution the thermodynamics of the aqueous carbonate system and central omissions at the very core of homogeneous kinetics are explained clearly and simply while still remaining at the cutting edge of the field *Environmental Chemistry, Eighth Edition* Stanley E. Manahan, 2004-08-26 Environmental Chemistry Eighth Edition builds on the same organizational structure validated in previous editions to systematically develop the principles tools and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications Revised and updated since the publication of the best selling Seventh Edition this text continues to emphasize the major concepts essential to the practice of environmental science technology and chemistry while introducing the newest innovations to the field The author provides clear explanations to important concepts such as the anthrosphere industrial ecosystems geochemistry aquatic chemistry and atmospheric chemistry including the study of ozone depleting chlorofluorocarbons The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste Several chapters review environmental biochemistry and toxicology and the final chapters describe analytical methods for measuring chemical and biological waste New features in this edition include enhanced coverage of chemical fate and transport industrial ecology particularly how it is integrated with green chemistry conservation principles and recent accomplishments in sustainable chemical science and technology a new chapter addressing terrorism and threats to the environment and the use of real world examples **Water Quality Engineering**

Mark M. Benjamin, Desmond F. Lawler, 2013-07-01 Explains the fundamental theory and mathematics of water and wastewater treatment processes By carefully explaining both the underlying theory and the underlying mathematics this text enables readers to fully grasp the fundamentals of physical and chemical treatment processes for water and wastewater Throughout the book the authors use detailed examples to illustrate real world challenges and their solutions including step by step mathematical calculations Each chapter ends with a set of problems that enable readers to put their knowledge into practice by developing and analyzing complex processes for the removal of soluble and particulate materials in order to ensure the safety of our water supplies Designed to give readers a deep understanding of how water treatment processes actually work Water Quality Engineering explores Application of mass balances in continuous flow systems enabling readers to understand and predict changes in water quality Processes for removing soluble contaminants from water including treatment of municipal and industrial wastes Processes for removing particulate materials from water Membrane processes to remove both soluble and particulate materials Following the discussion of mass balances in continuous flow systems in the first part of the book the authors explain and analyze water treatment processes in subsequent chapters by setting forth the relevant mass balance for the process reactor geometry and flow pattern under consideration With its many examples and problem sets Water Quality Engineering is recommended as a textbook for graduate courses in physical and chemical treatment processes for water and wastewater By drawing together the most recent research findings and industry practices this text is also recommended for professional environmental engineers in search of a contemporary perspective on water and wastewater treatment processes

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