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Over the past ten years, a number of new large-scale oceanographic programs have been initiated. These include the Climate Variability Program (CLIVAR) and the recent initiation of the Geochemical Trace Metal Program (GEOTRACES). These studies and future projects will produce a wealth of information on the biogeochemistry of the world's oceans. Aut

From Harvard University to the University of Miami, the first edition of Chemical Oceanography was a great success as a textbook. Now you can own the fully updated second edition. Each chapter has been expanded and/or updated in accordance with the current state of knowledge about the chemistry of oceans.

Chemical Oceanography, Third Edition, is a survey of essential concepts that contains a wealth of new data and maps, resulting in a more in-depth examination of oceanic biogeochemical processes. The most up-to-date compilation of essential concepts and data available on the subject, this book responds to the need for a thorough, yet straightforward approach to the subject for students, researchers, and other professionals in marine science, geochemistry, and environmental chemistry. The third edition of Chemical Oceanography incorporates significant findings on the properties of oceans from recent, large-scale oceanographic programs and valuable new data derived from additional experiments. It also discusses the interactions of metals with inorganic and natural organic ligands and the effect of speciation of metals on bioavailability and toxicity. The section on carbonate systems now examines the input of fossil fuel CO₂ into the ocean and its effect on the pH of the world oceans. Frank J. Millero, a world-renowned marine researcher and professor of undergraduate and graduate courses at the University of Miami for nearly 40 years, presents a time-tested and user-friendly resource specifically designed for both classroom use and self-study.

An in-depth discussion of the thermodynamics and kinetics of natural waters Divided into three major parts—structure of matter, chemical thermodynamics, and chemical kinetics— physical chemistry is concerned with the measurement, description, and prediction of the characteristics of chemical systems and their interaction with each other with respect to the transfer of mass and energy. Physical Chemistry of Natural Waters explores how the basic concepts of physical chemistry can be used to understand the chemistry of natural waters, with most of the text confined to chemical thermodynamics and kinetics. The extensive material in this book is the result of a course in marine physical chemistry that the author has taught over the past decade. Dr. Millero incorporates his own personal interest in solution physical chemistry and his approach to understanding the physical chemistry of seawater with the text's

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vast coverage of the physical chemistry of liquid phases. In addition, detailed reviews of the basics of thermodynamics and kinetics provide a comprehensive overview for a clearer understanding of the topics covered. Environmental and physical chemists conducting research on water, seawater, rivers, lakes, and groundwater as well as graduate students studying environmental chemistry will find *Physical Chemistry of Natural Waters* a solid foundation on the subject of the physical chemistry of natural waters.

Ocean Biogeochemical Dynamics provides a broad theoretical framework upon which graduate students and upper-level undergraduates can formulate an understanding of the processes that control the mean concentration and distribution of biologically utilized elements and compounds in the ocean. Though it is written as a textbook, it will also be of interest to more advanced scientists as a wide-ranging synthesis of our present understanding of ocean biogeochemical processes. The first two chapters of the book provide an introductory overview of biogeochemical and physical oceanography. The next four chapters concentrate on processes at the air-sea interface, the production of organic matter in the upper ocean, the remineralization of organic matter in the water column, and the processing of organic matter in the sediments. The focus of these chapters is on analyzing the cycles of organic carbon, oxygen, and nutrients. The next three chapters round out the authors' coverage of ocean biogeochemical cycles with discussions of silica, dissolved inorganic carbon and alkalinity, and CaCO_3 . The final chapter discusses applications of ocean biogeochemistry to our understanding of the role of the ocean carbon cycle in interannual to decadal variability, paleoclimatology, and the anthropogenic carbon budget. The problem sets included at the end of each chapter encourage students to ask critical questions in this exciting new field. While much of the approach is mathematical, the math is at a level that should be accessible to students with a year or two of college level mathematics and/or physics.

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The ocean has absorbed a significant portion of all human-made carbon dioxide emissions. This benefits human society by moderating the rate of climate change, but also causes unprecedented changes to ocean chemistry. Carbon dioxide taken up by the ocean decreases the pH of the water and leads to a suite of chemical changes collectively known as ocean acidification. The long term consequences of ocean acidification are not known, but are expected to result in changes to many ecosystems and the services they provide to society. *Ocean Acidification: A National Strategy to Meet the Challenges of a Changing Ocean* reviews the current state of knowledge, explores gaps in understanding, and identifies several key findings. Like climate change, ocean acidification is a growing global problem that will intensify with continued CO_2 emissions and has the potential to change marine ecosystems and affect benefits to society. The federal government has taken positive initial steps by developing a national ocean acidification program, but more information is needed to fully understand and address the threat that ocean acidification may pose to marine ecosystems and the services they provide. In addition, a global observation network of chemical and biological sensors is needed to monitor changes in ocean conditions attributable to acidification.

Microbial ecology is the study of interactions among microbes in natural environments and their roles in biogeochemical cycles, food web dynamics, and the evolution of life. Microbes are the most numerous organisms in the biosphere and mediate many critical reactions in elemental cycles and biogeochemical reactions. Because microbes are essential players in the carbon cycle and related processes, microbial ecology is a vital science for

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understanding the role of the biosphere in global warming and the response of natural ecosystems to climate change. This novel textbook discusses the major processes carried out by viruses, bacteria, fungi, protozoa and other protists - the microbes - in freshwater, marine, and terrestrial ecosystems. It focuses on biogeochemical processes, starting with primary production and the initial fixation of carbon into cellular biomass, before exploring how that carbon is degraded in both oxygen-rich (oxic) and oxygen-deficient (anoxic) environments. These biogeochemical processes are affected by ecological interactions, including competition for limiting nutrients, viral lysis, and predation by various protists in soils and aquatic habitats. The book neatly connects processes occurring at the micron scale to events happening at the global scale, including the carbon cycle and its connection to climate change issues. A final chapter is devoted to symbiosis and other relationships between microbes and larger organisms. Microbes have huge impacts not only on biogeochemical cycles, but also on the ecology and evolution of more complex forms of life, including Homo sapiens..

Seawater: Its Composition, Properties and Behaviour provides a comprehensive introduction to marine science. This book is divided into seven chapters. Chapter 1 summarizes the special properties of water and the role of the oceans in the hydrological cycle. The distribution of temperature and salinity in the oceans and their combined influence on density, stability, and vertical water movements are discussed in Chapters 2 to 4. The fifth chapter describes the behavior of light and sound in seawater and provides examples of the application of acoustics to oceanography. Chapter 6 examines the composition and behavior of the dissolved constituents of seawater, covering minor and trace constituents and major ions, as well as dissolved gases and biologically important nutrients. Residence times, speciation, and carbonate equilibria are also deliberated. The last chapter provides a short review of ideas about the history of seawater, involvement of the oceans in global cycles, and their relationship to climatic change. This publication is beneficial to oceanographers and marine biologists, including students that are interested in marine science.

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