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Principles of Chemical Sedimentology Robert A. Berner, 1971 Review of physical chemistry Ion activities in natural waters Calcium carbonate chemistry in surface waters Evaporite formation Diagenetic processes Diagenetic redox reactions in the system C N S H O Diagenesis of Ca Mg carbonates Formation and alteration of silica and clay minerals Diagenesis of iron minerals **Principles of chemical sedimentology N.Y., McGraw-Hill** Robert A. Berner, **Early Diagenesis** Robert A. Berner, 2020-03-31 Diagenesis refers to changes taking place in sediments after deposition In a theoretical treatment of early diagenesis Robert Berner shows how a rigorous development of the mathematical modeling of diagenetic processes can be useful to the understanding and interpretation of both experimental and field observations His book is unique in that the models are based on quantitative rate expressions in contrast to the qualitative descriptions that have dominated the field In the opening chapters the author develops the mathematical theory of early diagenesis introducing a general diagenetic equation and discussing it in terms of each major diagenetic process Included are the derivations of basic rate equations for diffusion compaction pore water flow burial advection bioturbation adsorption radioactive decay and especially chemical and biochemical reactions Drawing on examples from the recent literature on continental margin pelagic and non marine sediments he then illustrates the power of these diagenetic models in the study of such deposits The book is intended not only for earth scientists studying sediments and sedimentary rocks but also for researchers in fields such as radioactive waste disposal petroleum and economic geology environmental pollution and sea floor engineering *Journal of the Royal Society of New Zealand*, 1973-03 **Chemical Oceanography** J. P. Riley, R. Chester, 2013-10-22 Chemical Oceanography Second Edition Volume 6 provides an overview of the state of knowledge in chemical oceanography The present volume contains five chapters that focus on marine sediments It begins with a discussion of the process of chemical diagenesis in sediments Subsequent chapters deal with the factors that regulate the input and diagenesis of organic matter in sediments interstitial waters of marine sediments the mineralogy and geochemistry of near shore sediments and the geochemistry of deep sea sediments **Chemical Oceanography** Steven R. Emerson, Roberta C. Hamme, 2022-04-07 Chemical Oceanography Element Fluxes in the Sea focuses on the use of chemical distributions to understand mechanisms of physical chemical biological and geological processes in the ocean After an introduction describing observed chemical concentrations chapters focus on using chemical tracers to determine fluxes on a variety of time scales Long term chemical cycles are dominated by exchanges between seawater and land sediments and underwater volcanoes Biological and ocean mixing processes dominate internal chemical cycles that respond to changes on hundred to thousand year time scales Stable and radioactive isotopes trace the fluxes of nutrients and carbon to quantify the rates and mechanisms of chemical cycles Anthropogenic influences which have grown to be of the same magnitude as some natural cycles are a specific focus throughout the book Discussion boxes and quantitative problems help instructors to deepen student learning Appendices

enhance the book's utility as a reference text for students and researchers **Chemical Oceanographic Research** ,1973

Chemical Fundamentals of Geology and Environmental Geoscience Robin Gill,2015-01-27 Chemical principles are fundamental to the Earth sciences and geoscience students increasingly require a firm grasp of basic chemistry to succeed in their studies The enlarged third edition of this highly regarded textbook introduces the student to such geo relevant chemistry presented in the same lucid and accessible style as earlier editions but the new edition has been strengthened in its coverage of environmental geoscience and incorporates a new chapter introducing isotope geochemistry The book comprises three broad sections The first Chapters 1-4 deals with the basic physical chemistry of geological processes The second Chapters 5-8 introduces the wave mechanical view of the atom and explains the various types of chemical bonding that give Earth materials their diverse and distinctive properties The final chapters 9-11 survey the geologically relevant elements and isotopes and explain their formation and their abundances in the cosmos and the Earth The book concludes with an extensive glossary of terms appendices cover basic maths explain basic solution chemistry and list the chemical elements and the symbols units and constants used in the book **Introduction to Ore-Forming Processes** Laurence

Robb,2013-05-03 Introduction to Ore Forming Processes is the first senior undergraduate postgraduate textbook to focus specifically on the multiplicity of geological processes that result in the formation of mineral deposits Opens with an overview of magmatic ore forming processes Moves systematically through hydrothermal and sedimentary metallogenic environments covering as it does the entire gamut of mineral deposit types including the fossil fuels and supergene ores The final chapter relates metallogeny to global tectonics by examining the distribution of mineral deposits in space and time Boxed examples of world famous ore deposits are featured throughout providing context and relevance to the process oriented descriptions of ore genesis Brings the discipline of economic geology back into the realm of conventional mainstream earth science by emphasizing the fact that mineral deposits are simply one of the many natural wonders of geological process and evolution Artwork from the book is available to instructors at www.blackwellpublishing.com/robb Geological Survey Bulletin ,1986

U.S. Geological Survey Bulletin ,1984 *Hypersaline Environments* Barbara J. Javor,2012-12-06 Hypersaline environments are the principal habitats of petroleum deposition They are also of intense evolutionary and ecological interest This book presents a cross disciplinary examination of the variety of halophilic microorganisms and their roles in modifying the ecology and geochemistry of hypersaline environments The book also covers in detail the various inland and coastal habitats where halophilic microorganisms thrive Geographically hypersaline environments extend from the tropics to the poles and from the terrestrial to the submarine Organisms capable of living in such environments have faced unique evolutionary challenges **A to Z of Earth Scientists, Updated Edition** Alexander Gates,2019-10-01 A to Z of Earth Scientists Updated Edition is a comprehensive A to Z reference of Earth scientists in areas including plate tectonics climate change and planetary science Designed for high school through early college students this is an ideal reference of notable

Earth scientists from the 19th century to the present Featuring nearly 200 entries and 100 black and white photographs this title uses the device of biography in order to put a human face on science a method that adds immediacy to the prose for the high school student who may have an interest in pursuing a career in the earth sciences People covered include James Hutton 1726 1797 William Smith 1769 1839 Charles Lyell 1797 1875 Mary Anning 1799 1847 Inge Lehmann 1888 1993 Walter Alvarez 1911 1988 Doris Malkin Curtis 1914 1991 Marie Tharp 1920 2006 David Keeling 1928 2005 Dawn Wright 1961 present

Aquatic Chemistry Werner Stumm, James J. Morgan, 2012-12-18 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

U.S. Geological Survey Professional Paper ,1984 University Curricula in the Marine Sciences and Related Fields ,1979 *Biogeochemical Cycling of Mineral-Forming Elements* P.A. Trudinger, D.J. Swaine, 1979-01-01

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