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Geochemistry An Introduction Second Edition Francis Albarède Ecole Normale Supérieure de Lyon Institut Universitaire de France C A M B R I D G E U N I V E R S I T Y P R E S S Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo, Delhi, Mexico City Cambridge University Press The Edinburgh Building, Cambridge CB2 8RU, UK Published in the United States of America by ...

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Introduction to Exploration Geochemistry, 2nd Edition by A. A. Levinson ISBN 13: 9780915834013 ISBN 10: 0915834014 Hardcover: Illinois: Applied Publishing, 1980-01: ISBN-13: 978-0915834013

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Reflecting rapid changes in our knowledge of the earth's chemistry, this revision is more quantitative, gives more attention to environmental issues, and places greater emphasis on the application of geochemistry to geological problems than its predecessor. Using examples from actual field and laboratory studies, the authors give students a feeling for the application of geochemistry for many kinds of earth-science inquiry.

This book provides a comprehensive introduction to the field ofgeochemistry. The book first lays out the 'geochemicaltoolbox': the basic principles and techniques of moderngeochemistry, beginning with a review of thermodynamics andkinetics as they apply to the Earth and its environs. These basicconcepts are then applied to understanding processes in aqueoussystems and the behavior of trace elements in magmaticsystems. Subsequent chapters introduce radiogenic and stableisotope geochemistry and illustrate their application to suchdiverse topics as determining geologic time, ancient climates, andthe diets of prehistoric peoples. The focus then broadens to theformation of the solar system, the Earth, and the elementsthemselves. Then the composition of the Earth itself becomes thetopic, examining the composition of the core, the mantle, and thecrust and exploring how this structure originated. A final chaptercovers organic chemistry, including the origin of fossil fuels andthe carbon cycle's role in controlling Earth's climate,both in the geologic past and the rapidly changing present. Geochemistry is essential reading for all earth sciencestudents, as well as for researchers and appliedscientists who require an introduction to the essentialtheory of geochemistry, and a survey of its applications in theearth and environmental sciences. Additional resources can be found at: ahref="http://www.wiley.com/go/white/geochemistry"www.wiley.com/go/white/geochemistry/a

An Introduction to Organic Geochemistry explores the fate oforganic matter of all types, biogenic and man-made, in the EarthSystem. investigates the variety of pathways and biogeochemicaltransformations that carbon compounds can experience over a rangeof time scales and in different environments scope widened to provide a broad and up-to-date background -structured to accommodate readers with varied scientificbackgrounds essential terminology is defined fully and boxes are used toexplain concepts introduced from other disciplines further study aided by the incorporation of carefully selectedliterature references It investigates the variety of pathways and biogeochemicaltransformations that carbon compounds can experience over a rangeof time scales and in different environments.

Introducing the essentials of modern geochemistry for students across the Earth and environmental sciences, this new edition emphasises the general principles of this central discipline. Focusing on inorganic chemistry, Francis Albarède's refreshing approach is brought to topics that range from measuring geological time to the understanding of climate change. The author leads the student through the necessary mathematics to understand the quantitative aspects of the subject in an easily understandable manner. The early chapters cover the principles and methods of physics and chemistry that underlie geochemistry, to build the students' understanding of concepts such as isotopes, fractionation, and mixing. These are then applied across many of the environments on Earth, including the solid Earth, rivers, and climate, and then extended to processes on other planets. Three new chapters have been added - on stable isotopes, biogeochemistry, and environmental geochemistry. End-of-chapter student exercises, with solutions available online, are also included.

Written expressly for undergraduate and graduate geologists, this book focuses on how geochemical principles can be used to solve practical problems. The attention to problem-solving reflects the authors'belief that showing how theory is useful in solving real-life problems is vital for learning. The book gives students a thorough grasp of the basic principles of the subject, balancing the traditional equilibrium perspective and the kinetic viewpoint. The first half of the book considers processes in which temperature and pressure are nearly constant. After introductions to the laws of thermodynamics, to fundamental equations for flow and diffusion, and to solution chemistry, these principles are used to investigate diagenesis, weathering, and natural waters. The second half of the book applies thermodynamics and kinetics to systems undergoing changes in temperature and pressure during magmatism and metamorphism. This revised edition incorporates new geochemical discoveries as examples of processes and pathways, with new chapters on mineral structure and bonding and on organic matter and biomarkers. Each chapter has worked problems, and the authors assume that the student has had a year of college-level chemistry and a year of calculus. Praise for the first edition "A truly modern geochemistry book... Very well written and quite enjoyable to read... An excellent basic text for graduate level instruction in geochemistry." -- Journal of Geological Education "An up-to-date, broadly conceived introduction to geochemistry... Given the recent flowering of geochemistry as an interdisciplinary science, and given the extent to which it now draws upon the fundamentals of thermodynamics and kinetics to understand earth and planetary processes, this timely and rigorous [book] is welcome indeed." -- Geochimica et Cosmochimica Acta

This book is intended to serve as a text for an introductory course in geochemistry for undergraduate/graduate students with at least an elementary?level background in earth sciences, chemistry, and mathematics. The text, containing 83 tables and 181 figures, covers a wide variety of topics ? ranging from atomic structure to chemical and isotopic equilibria to modern biogeochemical cycles ? which are divided into four interrelated parts: Crystal Chemistry; Chemical Reactions (and biochemical reactions involving bacteria); Isotope Geochemistry (radiogenic and stable isotopes); and The Earth Supersystem, which includes discussions pertinent to the evolution of the solid Earth, the atmosphere, and the hydrosphere. In keeping with the modern trend in the field of geochemistry, the book emphasizes computational techniques by developing appropriate mathematical relations, solving a variety of problems to illustrate application of the mathematical relations, and leaving a set of questions at the end of each chapter to be solved by students. However, so as not to interrupt the flow of the text, involved chemical concepts and mathematical derivations are separated in the form of boxes. Supplementary materials are packaged into ten appendixes that include a standard?state (298.15 K, 1 bar) thermodynamic data table and a listing of answers to selected chapter?end questions. Additional resources for this book can be found at: www.wiley.com/go/misra/geochemistry.

Updated throughout with the latest data and findings, the Second Edition of Essentials of Geochemistry provides students with a solid understanding of the fundamentals of and approaches to modern geochemical analysis. The text uses a concepts of chemical equilibrium approach, which considers the reactions that occur as a result of changes in heat production and pressure within the Earth to introduce students to the basic geochemical principles. This text is for those who want a quantitative treatment that integrates the principles of thermodynamics, solution chemistry, and kinetics into the study of earth processes. This timely text contains numerous examples and problems sets which use SUPCRT92 to allow students to test their understanding of thermodynamic theory and maximize their comprehension of this prominent field. New sections introduce current "hot" topics such as global geochemical change with the short and long term carbon cycle, carbon isotopes and the Permo-Triassic extinction event, kinetics and the origin of life and the use of boron and nitrogen isotopes.

Environmental and Low-Temperature Geochemistry presents conceptual and quantitative principles of geochemistry in order to foster understanding of natural processes at and near the earth's surface, as well as anthropogenic impacts on the natural environment. It provides the reader with the essentials of concentration, speciation and reactivity of elements in soils, waters, sediments and air, drawing attention to both thermodynamic and kinetic controls. Specific features include: • An introductory chapter that reviews basic chemical principles applied to environmental and low-temperature geochemistry • Explanation and analysis of the importance of minerals in the environment • Principles of aqueous geochemistry • Organic compounds in the environment • The role of microbes in processes such as biomineralization, elemental speciation and reduction-oxidation reactions • Thorough coverage of the fundamentals of important geochemical cycles (C, N, P, S) • Atmospheric chemistry • Soil geochemistry • The roles of stable isotopes in environmental analysis • Radioactive and radiogenic isotopes as environmental tracers and environmental contaminants • Principles and examples of instrumental analysis in environmental geochemistry The text concludes with a case study of surface water and groundwater contamination that includes interactions and reactions of naturally-derived inorganic substances and introduced organic compounds (fuels and solvents), and illustrates the importance of interdisciplinary analysis in environmental geochemistry. Readership: Advanced undergraduate and graduate students studying environmental/low T geochemistry as part of an earth science, environmental science or related program. Additional resources for this book can be found at: www.wiley.com/go/ryan/geochemistry.

Building on the success of its 1993 predecessor, this second edition of Geochemistry: Groundwater and Pollution has been thoroughly re-written, updated and extended to provide a complete and authoritative account of modern hydrogeochemistry. Offering a quantitative approach to the study of groundwater quality and the interaction of water, minerals, gases, pollutants and microbes, this book shows how physical and chemical theory can be applied to explain observed water qualities and variations over space and time. Integral to the presentation, geochemical modelling using PHREEQC code is demonstrated, with step-by-step instructions for calculating and simulating field and laboratory data. Numerous figures and tables illustrate the theory, while worked examples including calculations and theoretical explanations assist the reader in gaining a deeper understanding of the concepts involved. A crucial read for students of hydrogeology, geochemistry and civil engineering, professionals in the water sciences will also find inspiration in the practical examples and modeling templates.

Engagingly introduces marine chemistry and the ocean's geochemical interactions with the solid earth and atmosphere, for students of oceanography.

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