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Designed to show readers how to use chemical principles in solving geological problems, this book emphasizes a quantitative approach to problem solving and demonstrates how chemical principles control geologic processes in atomic and large-scale environments. KEY TOPICS: The book starts with basic principles and emphasizes quantitative methods of problem-solving. It uses the principles of isotope geology to enhance the understanding of appropriate geochemical subject areas. The book also examines the geochemical processes that affect the chemical

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composition of surface water and that determine its quality for human consumption. MARKET: For anyone interested in Geochemistry or Geology.

This is the first dedicated book to cover the basics of a wide range of stable isotope applications in a manner appropriate for someone entering the field. At the same time, it offers sufficient detail – and numerous references and examples – to direct research for further inquiry. Discusses diverse topics such as hydrology, carbon in plants, meteorites, carbonates, metamorphic rocks, etc. Explores the theory and principles of isotope fractionation. Offers unique, up-to-date discussion of meteorite (extraterrestrial) isotope data. Presents the subject in an interesting historical context, with the classic papers noted. A useful reference for students taking the course and professionals entering the field of Geochemistry.

This book provides a comprehensive introduction to the field of geochemistry. The book first lays out the 'geochemical toolbox': the basic principles and techniques of modern geochemistry, beginning with a review of thermodynamics and kinetics as they apply to the Earth and its environs. These basic concepts are then applied to understanding processes in aqueous systems and the behavior of trace elements in magmatic systems. Subsequent chapters introduce radiogenic and stable isotope geochemistry and illustrate their application to such diverse topics as determining geologic time, ancient climates, and the diets of prehistoric peoples. The focus then broadens to the formation of the solar system, the Earth, and

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the elements themselves. Then the composition of the Earth itself becomes the topic, examining the composition of the core, the mantle, and the crust and exploring how this structure originated. A final chapter covers organic chemistry, including the origin of fossil fuels and the 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 science students, as well as for researchers and applied scientists who require an introduction to the essential theory of geochemistry, and a survey of its applications in the earth and environmental sciences. Additional resources can be found at: <http://www.wiley.com/go/white/geochemistry>

The earth in relation to the universe; The structure and composition of the earth; Some thermodynamics and crystal chemistry; Magmatism and igneous rocks; Sedimentation and sedimentary rocks; The hydrosphere; The atmosphere; The biosphere; Metamorphism and metamorphic rocks; The geochemical cycle.

This text attempts to enhance students' understanding of geological processes by showing them how to use chemical principles in solving geological problems. Emphasizing a quantitative approach to problem solving, this new text demonstrates how chemical principles control these processes in atomic and large-scale environments. In this way, students may see that the principles and applications of inorganic geochemistry are accessible, internally consistent, and useful for understanding the

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world around us. And as professional geologists, this understanding may help them to predict the outcome of chemical reactions occurring in geological processes and to realize the important role they play in characterizing our environment.

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

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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.

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Many geochemists focus on natural systems with less emphasis on the human impact on those systems. Environmental chemists frequently approach their subject with less consideration of the historical record than geoscientists. The field of environmental geochemistry combines these approaches to address questions about the natural environment and anthropogenic effects on it. Eby provides students with a solid foundation in basic aqueous geochemistry before discussing the important role carbon compounds, isotopes, and minerals play in environmental issues. He then guides students through how these concepts apply to problems facing our atmosphere, continental lands, and oceans. Rather than broadly discussing a variety of environmental problems, the author focuses on principles throughout the text, leading students to understand processes and how knowledge of those processes can be applied to environmental problem solving. A wide variety of case studies and quantitative problems accompany each chapter, giving each instructor the flexibility to tailor the material to his/her course. Many problems have no single correct answer, illustrating the analytical nature of solving real-world environmental problems.

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

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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.

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