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Principles and Applications of Geochemistry (2nd Edition) 2nd Edition (Paperback) by Faure, Gunter published by Prentice Hall Paperback – January 3, 1997. 3.7 out of 5 stars 16 ratings.

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Geology majors in their senior year or first year of graduate work. Designed to show students how to use chemical principles in solving geological problems, this text emphasizes a quantitative approach to problem solving and demonstrates how chemical principles control geologic processes in atomic and large-scale environments.

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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 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

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play in characterizing our environment.

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.

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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

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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 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>

This book aims to explore basic principles, concepts and applications of geochemistry. Topics include chemical weathering, impacts on living beings and water, geochemical cycles, oxidation and redox reactions in geochemistry, isotopes, analytical techniques, medicinal, inorganic, marine, atmospheric, and environmental applications, as well as case studies. This book helps in understanding the chemical composition of the earth and its applications. It also includes beneficial effects, bottlenecks, solutions, and future directions in geochemistry.

As this is the first general textbook for the field published in over twenty years, the editors have taken great care to make sure coverage is comprehensive. Diagenesis of organic matter, kerogens, exploration for fossil fuels, and many other subjects are discussed in detail to provide faculty and

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