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and minerals are
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the principles used in the interpretation of isotopic data and shows how such interpretations apply to the solution of geological problems. Current with references up to 1985, chapters in this edition have been revised, and new chapters on Sm-Nd, Lu-Hf, Re-Os, and K-

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Ca decay schemes and cosmogenic radionuclides have been added. Data summaries and references have been expanded. Also includes problems for student study and abundant line drawings with explanatory captions.

Designed to show

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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

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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

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geochemical
processes that affect
the chemical
composition of
surface water and
that determine its
quality for human
consumption.

MARKET: For anyone
interested in
Geochemistry or
Geology.

This text attempts to
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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

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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

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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.

This book provides a comprehensive

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introduction to the field of geochemistry. The book first lays out the ' geochemic altoolbox ' : 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.

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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

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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 the elements themselves. Then the composition of the Earth itself becomes

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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

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changing present.
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essential reading for
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researchers and
applied scientists who
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small-scale

deformation
structures in rocks.

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and contain

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information on the
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This book provides a comprehensive introduction to radiogenic and stable isotope geochemistry.

Beginning with a brief overview of nuclear physics and nuclear origins, it then reviews radioactive decay schemes and their

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use in geochronology. A following chapter covers the closely related techniques such as fission-track and carbon-14 dating. Subsequent chapters cover nucleosynthetic anomalies in meteorites and early solar system chronology and the

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use of radiogenic isotopes in understanding the evolution of the Earth's mantle, crust, and oceans.

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archeology and paleontology, ore formation, and, particularly, paleoclimatology. A following chapter explores recent developments including unconventional stable isotopes, mass-independent fractionation, and isotopic 'clumping'.

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Starting with historical perspectives on space exploration and the development of the scientific method, the book leads the reader through the solar

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system. Coverage explains that the origin and subsequent evolution of planets and their satellites can be explained by applications of certain basic principles of physics, chemistry, and celestial mechanics and that surface features of the solid

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bodies can be
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background for the
second half of the
text, which divides
the discussion of
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