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CHOI ESTHER

Mineralogy Springer Science & Business Media

Mineral Deposits of Finland is the only up-to-date and inclusive reference available that fully captures the scope of Finland's mineral deposits and their economic

potential. Finland hosts Europe's most mature rocks and large cratonic blocks, analogous to western Australia and Southern Africa, which are the most mineralized terrains on Earth.Authored by the world's premier experts on Finnish mineral exploration and mining, Mineral Deposits of Finland offers a thorough summary of the mineral deposits and their petrogenesis, helping readers to map, explore, and identify Finland's renewed potential for mineral exploration and extraction. - Presents a thoroughly inclusive catalogue of Finland's mineral deposits and their economic potential - Features full-color figures, illustrations, working examples and photographs to aid the reader in retaining key concepts to underscore major advances in the exploration of Finland's mineral resources - Offers concise chapter summaries authored by leaders in geological research, which provide accessible overviews of deposit classes

The Stability of Minerals Springer This book offers a compact guide to geological core analysis, covering both theoretical and practical aspects of geological studies of reservoir cores. It equips the reader with the knowledge needed to precisely and accurately analyse cores. The book begins by providing a description of a coring plan, coring, and core

sampling and continues with a sample preparation for geological analysis. It then goes on to explain how the samples are named, classified and integrated in order to understand the geological properties that dictate reservoir characteristics. Subsequently, porosity and permeability data derived from routine experiments are combined to define geological rock types and reduce reservoir heterogeneity. Sequence stratigraphy is introduced for reservoir zonation. Core log preparation is also covered, allowing reservoirs to be analysed even more accurately. As the study of core samples is the only way to accurately gauge reservoir properties, this book provides a useful guide for all geologists and engineers working with subsurface samples.

Concepts of Biology

Springer Science & Business Media

The Encyclopedia of Mineralogy provides comprehensive, basic treatment of the science of mineralogy. More than 140 articles by internationally known scholars and research workers describe specific areas of mineralogical interest, and a glossary of 3000 entries defines all valid mineral species and many related mineral names. In addition to traditional topics - descriptions of major structural groups, methods of mineral analysis, and the paragenesis of mineral species - this volume

embraces such subjects as asbestiform minerals, minerals found in caves and in living beings, and gems and gemology. It includes current data on the latest in our geological inventories - lunar minerals. It describes the properties, characteristics, and uses of industrial resources such as abrasive materials and Portland cement. A directory will guide traveling mineralogists to the major mineralogical museums of the world, with their special interests noted. Clear technical illustrations supplement the text throughout. To help the student and professional find particular information there are a comprehensive subject index, extensive cross-references of related topics (whether in this volume or others in the series), and reference lists to background information and detailed advanced treatment of all topics. The Encyclopedia of Mineralogy is a valuable reference and source for professionals in all geological sciences, for science teachers at all levels, for collectors and `rock hounds', and for all who are curious about the minerals on earth or those brought back from outer space.

Minerals: A Very Short Introduction

San Francisco : Freeman

This book provides the reader with a comprehensive understanding of the applications of chemostratigraphy.

The first chapter of the book offers an introduction to the technique. This is followed by a chapter detailing sample preparation and analytical techniques. Chapter 3 focuses on the techniques utilised to establish the mineralogical affinities of elements, while the general principles of how to build a chemostratigraphic scheme are covered in Chapter 4. Chapters 5, 6 and 7 provide information on the applications of chemostratigraphy to clastic, carbonate and unconventional reservoirs respectively, and various case studies are presented. Wellsite applications, a discussion and conclusion section form the latter part of the book. The book will appeal to graduate and post graduate students of geology and professionals working in the hydrocarbon sector as a key reference text in chemostratigraphy.

Optical Crystallography

SEG Books

The purpose of this book is to serve the needs of students in learning the procedures and theory required to use the petrographic microscope. In the second edition the book has been updated and there has been a number of changes.

Principles of Elemental Chemostratigraphy

Dalcassian Publishing Company

Analytical methods used in the Geologic Division laboratories of the U.S. Geological Survey for the inorganic chemical

analysis of rock and mineral samples.
Elements of Mineralogy
Routledge
Introduction to Mineralogy and Petrology, second edition, presents the essentials of both disciplines through an approach accessible to industry professionals, academic researchers, and students alike. This new edition emphasizes the relationship between rocks and minerals, right from the structures created during rock formation through the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock formation, mineralogy speaks to the physical and chemical properties, uses, and global occurrences for each mineral, emphasizing the need for the growth of human development. The primary goal is for the reader to identify minerals in all respects, including host-rocks, and mineral deposits, with additional knowledge of mineral-exploration, resource, extraction, process, and ultimate use. To help provide a comprehensive analysis across ethical and socio-economic dimensions, a separate chapter describes the hazards associated with minerals, rocks, and mineral industries, and the consequences to humanity along with remedies and case studies. New to the second edition: includes coverage of minerals and petrology in extra-terrestrial environments as well

as case studies on the hazards of the mining industry. Addresses the full scope of core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative, usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry

Earth Materials Oxford University Press, USA

"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D. Opdyke, University of Florida

Geological Core Analysis Elsevier

Soils are affected by human activities, such as industrial, municipal and agriculture, that often result in soil degradation and loss. In order to prevent soil degradation and to rehabilitate the potentials of degraded soils, reliable soil data are the most important prerequisites for the design of appropriate land-use systems and soil management practices as well as for a better understanding of the environment. The availability of reliable information on soil morphology and other characteristics obtained through examination and description of the soil in the field is essential, and the use of a common language is of prime importance. These guidelines, based on the latest internationally accepted systems and classifications, provide a complete procedure for soil description and for collecting field data. To help beginners, some explanatory notes are included as well as keys based on simple test and observations.--Publisher's description.

Meteorite Mineralogy Elsevier 30% discount for members of The Mineralogical Society of Britain and Ireland This volume addresses the fundamental factors that underlie our understanding of mineral behaviour and crystal chemistry - a timely topic given current advances in research into the complex behaviour of solids and supercomputing.

Dana's Manual of

Mineralogy for the Student of Elementary Mineralogy, the Mining Engineer, the Geologist, the Prospector, the Collector, Etc Cambridge University Press
A comprehensive summary of the mineralogy of all meteorite groups and the origin of their minerals.
Geoscience Handbook, AGI Data Sheets 2016, 5th Edition OUP Oxford
Elements of 3D Seismology, third edition is a thorough introduction to the acquisition, processing, and interpretation of 3D seismic data. This third edition is a major update of the second edition. Sections dealing with interpretation have been greatly revised in accordance with improved understanding and availability of data and software. Practice exercises have been added, as well as a 3D seismic survey predesign exercise. Discussions include: conceptual and historical foundations of modern reflection seismology; an overview of seismic wave phenomena in acoustic, elastic, and porous media; acquisition principles for land and marine seismic surveys; methods used to create 2D and 3D seismic images from field data; concepts of dip moveout, prestack migration, and depth migration; concepts and limitations of 3D seismic interpretation for structure, stratigraphy, and rock property estimation;

and the interpretation role of attributes, impedance estimation, and AVO. This book is intended as a general text on reflection seismology, including wave propagation, data acquisition, processing, and interpretation and will be of interest to entry-level geophysicists, experts in related fields (geology, petroleum engineering), and experienced geophysicists in one subfield wishing to learn about another (e.g., interpreters wanting to learn about seismic waves or data acquisition).

Structure of Materials Cambridge University Press

This book demonstrates the direct link between petroleum, the derivative of organic materials, and ore bodies. The studies reported here highlight the common factors between hydrocarbons and mineral concentrations, such as heat sources, migration routes and likely traps. It emphasizes the role that hydrothermal processes play in the genesis of both petroleum generation and ore-grade mineralization. The presence of oil residue in the form of bitumen and pyrobitumen in all sediment-hosted ore bodies throughout the geological record is a testimony to their common diagenetic history. Studies of active hydrothermal systems reported in this book describe the processes and derivatives in these

environments, linking hydrocarbon generation and mineral precipitation. A comparison with residual oil in many ore bodies and mineralization occurrences in the geological record, as depicted in this book, can be explained in terms of processes in active hydrothermal systems. One of the most interesting and challenging recent discoveries, that of living nano-bacteria, is reported in this book. The `nanobes', as they have recently been dubbed, have been suggested as the link between the living and non-living matter. The resemblance of these nano-organisms to fossil forms observed in a Martian meteorite have been reported recently in the media. Likewise the similarity to nano-bacteria in Archaean sediments is highlighted in two chapters of the book.

Fundamentals of Geomorphology Cambridge University Press

This book offers a complete introduction to the study of metamorphic rocks.

Introduction to Optical Mineralogy Geological Society of London

2012 marked the centenary of one of the most significant discoveries of the early twentieth century, the discovery of X-ray diffraction (March 1912, by Laue, Friedrich, and Knipping) and of Bragg's law (November 1912). The discovery of X-ray diffraction confirmed the wave nature of X-rays and the space-lattice

hypothesis. It had two major consequences: the analysis of the structure of atoms, and the determination of the atomic structure of materials. This had a momentous impact in chemistry, physics, mineralogy, material science, and biology. This book relates the discovery itself, the early days of X-ray crystallography, and the way the news of the discovery spread round the world. It explains how the first crystal structures were determined, and recounts which were the early applications of X-ray crystallography. It also tells how the concept of space lattice has developed since ancient times, and how our understanding of the nature of light has changed over time. The contributions of the main actors of the story, prior to the discovery, at the time of the discovery and immediately afterwards, are described through their writings and are put into the context of the time, accompanied by brief biographical details.

Diffusion in Minerals and Melts Elsevier

This highly readable, popular textbook for upper undergraduates and graduates comprehensively covers the fundamentals of crystallography and symmetry, applying these concepts to a large range of materials. New to this edition are more streamlined coverage of crystallography, additional coverage of magnetic point group

symmetry and updated material on extraterrestrial minerals and rocks. New exercises at the end of chapters, plus over 500 additional exercises available online, allow students to check their understanding of key concepts and put into practice what they have learnt. Over 400 illustrations within the text help students visualise crystal structures and more abstract mathematical objects, supporting more difficult topics like point group symmetries. Historical and biographical sections add colour and interest by giving an insight into those who have contributed significantly to the field. Supplementary online material includes password-protected solutions, over 100 crystal structure data files, and Powerpoints of figures from the book.

Rock-Forming Minerals: Orthosilicates, Volume 1A Walter de Gruyter GmbH & Co KG

This book is a collection of papers that are devoted to various aspects of interactions between mineralogy and material sciences. It will include reviews, perspective papers and original research papers on mineral nanostructures, biomineralization, micro- and nanoporous mineral phases as functional materials, physical and optical properties of minerals, etc. Many important materials that dominate modern technological development were

known to mineralogists for hundreds of years, though their properties were not fully recognized. Mineralogy, on the other hand, needs new impacts for the further development in the line of modern scientific achievements such as bio- and nanotechnologies as well as by the understanding of a deep role that information plays in the formation of natural structures and definition of natural processes. It is the idea of this series of books to provide an arena for interdisciplinary discussion on minerals as advanced materials.

Elements of 3D Seismology, third edition

Volume 72 of Reviews in Mineralogy and Geochemistry represents an extensive compilation of the material presented by the invited speakers at a short course on Diffusion in Minerals and Melts held prior (December 11-12, 2010) to the Annual fall meeting of the American Geophysical Union in San Francisco, California. The short course was held at the Napa Valley Marriott Hotel and Spa in Napa, California and was sponsored by the Mineralogical Society of America and the Geochemical Society.

An Introduction to the Rock-forming Minerals Plus

This book covers the entire spectrum of mineralogy and consolidates its applications in different fields. Part I starts with the very basic concept

of mineralogy describing in detail the implications of the various aspects of mineral chemistry, crystallographic structures and their effects producing different mineral properties. Part II of the book describes different aspects of mineralogy like geothermobarometry, mineral thermodynamics and phase diagrams, mineral exploration and analysis, and marine minerals. Finally Part III handles the applications in industrial, medicinal and environmental mineralogy along with precious and semiprecious stone studies. The various analytical techniques and their significance in handling specific types of mineralogical problems are also covered.

Practical Approach Crystallography Mi

Springer Science & Business Media

Few books achieve a connection between scientifc theory and real world environmental problems, but this one does. Generous use of color images, exercises, and case studies make it friendly for the classroom or non-mineralogist. Discover crystallography, surface chemistry, mineral-solution equilibria, organic matter, and soil mineral analysis. The book includes a lengthy exploration of world-wide applications of mineralogy in soil taxonomy, tectonics, radionuclides, pesticides, enzymes,

and more.

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