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Essentials of Mineral Exploration and Evaluation
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Interfacial Chemistry of Rocks and Soils
New Mexico Geology
Tunnelling In Weak Rocks
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A Dictionary and Optical Microscopy of Historical Pigments
Encyclopedia of Geology
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Rock-forming Minerals in Thin Section
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Volume 1: X-ray Photoelectron Spectra
The Aus. I.M.M. Bulletin

KELLEY AYERS

Rock Geochemistry in Mineral

Exploration Elsevier's Mineral And Rock Table

This is an essential purchase for all painting conservators and conservation scientists dealing with paintings and painted objects. It provides the first definitive manual dedicated to optical microscopy of historical pigments. Illustrated throughout with full colour images reproduced to the highest possible quality, this book is based on years of painstaking research into the visual and optical properties of pigments. Now combined with the Pigment Dictionary, the most thorough reference to pigment names and synonyms available, the Pigment Compendium is a major addition to the study and understanding of historic pigments.

Industrial Minerals and Rocks Elsevier Handbook of Exploration Geochemistry, Volume 3: Rock Geochemistry in Mineral Exploration focuses on the application of rock geochemistry in mineral exploration, including deposits of plutonic association, volcanic and sedimentary association, and sequence of geochemical exploration. The publication first elaborates on geochemistry in the exploration sequence, crustal abundance, geochemical behavior of elements, and problems of sampling and recognition of geochemical anomalies. Discussions focus on population partition, spatial distribution of data, abundance of elements, classification and geochemical behavior of elements, principles underlying geochemical exploration, sequence of geochemical exploration, and main types of geochemical surveys. The text then takes a look at regional

scale exploration for deposits of plutonic association; regional scale exploration for vein and replacement deposits; and regional scale exploration for stratiform deposits of volcanic and sedimentary association. The book ponders on the synthesis of geochemical responses and operational conclusions, local and mine scale exploration for stratiform deposits of volcanic and sedimentary association in Cyprus, Turkey, and Oceania, New Brunswick deposits, and Precambrian, Proterozoic, and Kuroko deposits. The text is a valuable reference for researchers interested in the application of rock geochemistry in mineral exploration.

Rare Earth Element Geochemistry

Elsevier

Ultrahigh Pressure Metamorphism (UHPM) is a fast growing discipline that was established 25 years ago after discoveries of high pressure minerals, coesite and diamonds. The current explosion of research on UHPM terranes reflects their significance for understanding large scale mantle dynamics, major elements of plate tectonics such as continental collisions, deep subduction and exhumation, mountains building, geochemical recycling 'from surface to the core', and a deep storage of light elements participating in green-house effects in the atmosphere. This book provides insights into the formation of diamond and coesite at very high pressures and explores new ideas regarding the tectonic setting of this style of metamorphism. Important, authoritative and comprehensive one-stop resource for the growing ultrahigh pressure metamorphism UHPM research community A forward-looking approach founded upon a detailed historical perspective on UHPM presents the

trends in discovery, methodology and theory over the last 25 years, allowing readers to gain a clear understanding of the current trends and the approaches that will shape the science in the future. A highly diverse set of articles, covering a wide range of methods and sub-disciplines

World Directory of mineralogists Elsevier

The book is structured thematically, encompassing principles, processes and products, practice and applications. Discussion of processes that control heavy mineral assemblages throughout the rock cycle are presented by leading experts, whose key-note works are followed by specialist case studies. Each work also provides details on the geology of the study area, techniques and data treatment. The high number of contributions represent the collective experience and wisdom of generations of geologists, and provide an invaluable source of references to works carried out in many parts of the world. * Presents a unique and authoritative resource of immediate relevance and practical use to the researcher and applied geologist * Contains case studies demonstrating the broad range of applications of heavy minerals in a variety of modern and ancient geological settings, and in resource exploration * Includes examples of geological problems from employing heavy mineral analysis and establishing criteria that can be applied before deciding to undertake a study

Advanced Algorithms for Mineral and Hydrocarbon Exploration Using Synthetic Aperture Radar Elsevier

Industrial Minerals and Rocks is a collection of research papers concerning the study of industrial mineral deposits. This work is composed of 17 chapters that specifically highlight the research done by Czech and Slovak economic

geologists in non-metallic deposits, including talc, magnesite, kaolin, and clay. After an introduction to the history of industrial minerals and rocks, this book goes on reviewing the origin, principal element cycle, genetic types, form, and size of these deposits. Considerable chapters describe the deposits of industrial minerals, rocks, and building raw materials. The remaining chapters deal with the geophysical methods prospecting and exploration and production of industrial raw materials, rocks, and minerals. This book will prove useful to mineral geologists and researchers.

Elsevier Geo-Engineering Book 5

Elsevier

A symbiosis of a brief description of physical fundamentals of the rock properties (based on typical experimental results and relevant theories and models) with a guide for practical use of different theoretical concepts.

Nickel Sulfide Ores and Impact Melts
CRC Press

Advanced Algorithms for Mineral and Hydrocarbon Exploration Using Synthetic Aperture Radar is a research- and practically-based reference that bridges the gap between the remote sensing industry and the mineral and hydrocarbon exploration industry. In this context, the book explains how to commercialize the applications of synthetic aperture radar and quantum interferometry synthetic aperture radar (QInSAR) for mineral and hydrocarbon exploration. This multidisciplinary reference is useful for oil and gas companies, the mining industry, geoscientists, and coastal and petroleum engineers. Presents both theoretical and practical applications of various types of remote sensing for hydrocarbon and

mineral exploration Covers specific problems for exploration professionals and provides applications for solving each problem Includes more than 100 images and figures to help explain the concepts and applications described in the book

Ultra-high-Pressure Metamorphism

Elsevier

Gamma-Ray Spectrometry of Rocks: Methods in Geochemistry and Geophysics provides information pertinent to the fundamental aspects of the gamma-ray spectrometry of rocks. This book discusses the increasing interest in using gamma spectrometry in the search for uranium ore. Organized into seven chapters, this book begins with an overview of the approximate frequency and wave length of electromagnetic radiations. This text then examines the quantitative detection of X and gamma photons, which is based upon their interactions with matter. Other chapters consider the inorganic scintillation crystals as the most favorable detectors due to its requirement of a high intrinsic efficiency. This book discusses as well the shape of the spectrum of a monoenergetic gamma-ray beam, which is dependent on the photon energy. The final chapter deals with the determination of the abundances of natural radioisotopes and their stable end products in a rock or mineral. This book is a valuable resource for radiological health physicists, chemists, geochemists, and exploration geologists.

Open Earth Academic Press

A revised and updated guide to reference material. It contains selective and evaluative entries to guide the enquirer to the best source of reference in each subject area, be it journal article, CD-ROM, on-line database, bibliography,

encyclopaedia, monograph or directory. It features full critical annotations and reviewers' comments and comprehensive author-title and subject indexes. The contents include: mathematics; astronomy and surveying; physics; chemistry; earth sciences; palaeontology; anthropology; biology; natural history; botany; zoology; patents and interventions; medicine; engineering; transport vehicles; agriculture and livestock; household management; communication; chemical industry; manufactures; industries, trades and crafts; and the building industry.

Informacion Tecnologica Elsevier

Practical Skills in Environmental Science provides students with the guidance needed to carry out fieldwork, sampling, laboratory studies, project work and communication and computing tasks. The book includes many links to the Internet and the Web.

Handbook of Flotation Reagents:

Chemistry, Theory and Practice Elsevier

Techniques of performing applied mineralogy investigations, and applications and capabilities of recently developed instruments for measuring mineral properties are explored in this book intended for practicing applied mineralogists, students in mineralogy and metallurgy, and mineral processing engineers. The benefits of applied mineralogy are presented by using in-depth applied mineralogy studies on base metal ores, gold ores, porphyry copper ores, iron ores and industrial minerals as examples. The chapter on base metal ores includes a discussion on the effects of liberation, particle sizes and surfaces coatings of Pb, Cu, Fe, Ca and SO_4^{2-} on the recoveries of sphalerite, galena and chalcopyrite. The chapter on gold discusses various methods of

determining the quantities of gold in different minerals, including 'invisible' gold in pyrite and arsenopyrite, so that a balance of the distribution of gold among the minerals can be calculated. This book also discusses the roles of pyrite, oxygen, moisture and bacterial (thiobacillus ferrooxidans) on reactions that produce acidic drainage from tailings piles, and summarizes currently used and proposed methods of remediation of acidic drainage.

Project Development and Operations
Elsevier

Elsevier's Mineral And Rock
Table Elsevier Science &

Technology Introduction to Mineralogy
and Petrology Elsevier

Heavy Minerals in Use Elsevier

Gold Ore Processing: Project Development and Operations, Second Edition, brings together all the technical aspects relevant to modern gold ore processing, offering a practical perspective that is vital to the successful and responsible development, operation, and closure of any gold ore processing operation. This completely updated edition features coverage of established, newly implemented, and emerging technologies; updated case studies; and additional topics, including automated mineralogy and geometallurgy, cyanide code compliance, recovery of gold from e-waste, handling of gaseous emissions, mercury and arsenic, emerging non-cyanide leaching systems, hydro re-mining, water management, solid-liquid separation, and treatment of challenging ores such as double refractory carbonaceous sulfides. Outlining best practices in gold processing from a variety of perspectives, *Gold Ore Processing: Project Development and Operations* is a must-have reference for anyone working in the gold industry,

including metallurgists, geologists, chemists, mining engineers, and many others. Includes several new chapters presenting established, newly implemented, and emerging technologies in gold ore processing. Covers all aspects of gold ore processing, from feasibility and development stages through environmentally responsible operations, to the rehabilitation stage. Offers a mineralogy-based approach to gold ore process flowsheet development that has application to multiple ore types.

Mineral Exploration Longman
Publishing Group

Globally, mineral exploration has grown significantly in recent years, driven by the rapid acceleration in prices for gold and diamonds since 2004 and the emergence of a middle class in both China and India—aggressively increased demand. Despite this resurgence, no single book has been published that takes an interdisciplinary approach in addressing the full scope of mineral exploration—from mining and extraction to economic evaluation, policies, sustainability, and environmental impacts. *Mineral Exploration: Principles and Applications* accomplishes this by presenting each topic with theoretical approaches first followed by specific applications that can be immediately implemented in the field. Presents 16 case studies that allow readers to quickly apply exploration concepts to real-life scenarios in the field. Includes more than 200 illustrations and full-color photographs that aid the reader in retaining key procedures and applications. Each chapter is structured so that its topic is discussed theoretically first followed by specific applications. Combines both theory and application in a multidisciplinary reference that

thoroughly addresses the full scope of mineral exploration Authored by an instructor with more than 30 years of experience in the field and a decade as a consultant for commercial mining companies

Earth's Oldest Rocks Elsevier
Nickel Sulfide Ores and Impact Melts: Origin of the Sudbury Igneous Complex presents a current state of understanding on the geology and ore deposits of the Sudbury Igneous Complex in Ontario, Canada. As the first complete reference on the subject, this book explores the linkage between the processes of meteorite impact, melt sheet formation, differentiation, sulfide immiscibility and metal collection, and the localization of ores by magmatic and post-magmatic processes. The discovery of new ore deposits requires industry and government scientists and academic scholars to have access to the latest understanding of ore formation process models that link to the mineralization of their host rocks. The ore deposits at Sudbury are one of the world's largest ore systems, representing a classic case study that brings together very diverse datasets and ways of thinking. This book is designed to emphasize concepts that can be applied across a broad range of ore deposit types beyond Sudbury and nickel deposit geology. It is an essential resource for exploration geologists, university researchers, and government scientists, and can be used in rock and mineral analysis, remote sensing, and geophysical applications. Provides the only reference book to focus entirely on the Sudbury Igneous Complex Brings together an understanding of ore deposit and impact melts as a basis for future exploration Authored by a leading expert on the geology of the Sudbury Igneous Complex with 35 years of experience

working on nickel sulfide ore deposits
25 Years After The Discovery Of Coesite And Diamond SME

Essentials of Mineral Exploration and Evaluation offers a thorough overview of methods used in mineral exploration campaigns, evaluation, reporting and economic assessment processes. Fully illustrated to cover the state-of-the-art exploration techniques and evaluation of mineral assets being practiced globally, this up-to-date reference offers balanced coverage of the latest knowledge and current global trends in successful mineral exploration and evaluation. From mineral deposits, to remote sensing, to sampling and analysis, **Essentials of Mineral Exploration and Evaluation** offers an extensive look at this rapidly changing field. Covers the complete spectrum of all aspects of ore deposits and mining them, providing a "one-stop shop" for experts and students Presents the most up-to-date information on developments and methods in all areas of mineral exploration Includes chapters on application of GIS, statistics, and geostatistics in mineral exploration and evaluation Includes case studies to enhance practical application of concepts

A Workbook Elsevier
Handbook of Mineral Spectroscopy, Volume 1: X-ray Photoelectron Spectra presents a database of X-ray Photoelectron spectra showing both survey (with chemical analysis) and high-resolution spectra of more than 200 rock-forming and major ore minerals. XPS of minerals is a very powerful technique for analyzing not only the chemical composition of minerals - including, for other techniques, difficult elements such as F and Cl, but also the local environment of atoms in a crystal structure. The book includes a section on

silicates and on non-silicates, and is further subdivided according to the normal mineral classes. Brings together and expands upon the limited information available on the XPS of minerals into one handbook Features 2,500 full color, X-ray Photoelectron survey and high-resolution Spectra for use by researchers in the lab and as a reference Includes the chemical information of each mineral Written by experts with more than 50 years of combined mineral spectroscopy experience

Applied Mineralogy in the Mining Industry Elsevier Science & Technology News, Inc., Portland, OR (booknews.com).

Elsevier's Mineral And Rock Table Routledge

Introduction to Mineralogy and Petrology presents the essentials of both disciplines through an approach accessible to industry professionals, academic researchers, and students. Mineralogy and petrology stand as the backbone of the geosciences. Detailed knowledge of minerals and rocks and the process of formation and association are essential for practicing professionals and advanced students. This book is designed as an accessible, step-by-step guide to exploring, retaining, and implementing the core concepts of mineral and hydrocarbon exploration, mining, and extraction. Each topic is fully supported by working examples, diagrams and full-color images. The inclusion of petroleum, gas, metallic deposits and economic aspects enhance the book's value as a practical reference for mineralogy and petrology. Authored by two of the world's premier experts, this book is a must for any young professional, researcher, or student looking for a thorough and inclusive

guide to mineralogy and petrology in a single source. Authored by two of the world's experts in mineralogy and petrology, who have more than 70 years of experience in research and instruction combined Addresses the full scope of the 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 150 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 followed by the hosting of mineral deposits and concluding with the exploration and extraction of lucrative, usable products to improve the health of global economies

Pigment Compendium Elsevier Handbook of Flotation Reagents: Chemistry, Theory and Practice is a condensed form of the fundamental knowledge of chemical reagents commonly used in flotation and is addressed to the researchers and plant metallurgists who employ these reagents. Consisting of three distinct parts: 1) provides detailed description of the chemistry used in mineral processing industry; 2) describes theoretical aspects of the action of flotation reagents 3) provides information on the use of reagents in over 100 operating plants treating Cu, Cu/Zn, Cu/Pb, Zn, Pb/Zn/Ag, Cu/Ni and Ni ores. * Looks at the theoretical aspects of flotation reagents * Examines the practical aspects of using chemical reagents in operating plants * Provides guidelines for researchers and engineers involved in process design and development

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