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Economic Geology Books Free Download

resources, as well as the role that the country's mineral, energy and natural resources play in its overall economy. The book finishes with also provides a complete list of the mineral deposits. For each deposit, the book gives detailed information for all students and researchers in the field of geoscientists at the university level but also for

mining and oil companies that would like to work, invest and get involved in such businesses in Iran.

The Economic Geology of Iran - Mansour Ghorbani - 2013-03-27

The Economic Geology of Iran is a complete and comprehensive book about mineral deposits, energy and water resources of Iran. Dr. Mansour Ghorbani has travelled to various parts of the country, followed by the history of mining in Iran up to now. The author describes also the metallic and mineralization phases of Iran, its mineral and zones, and, more generally, the distribution of mineral deposits in the country. Dr. Ghorbani gives us also an analysis of the position of Iran in terms of global mineral resources, as well as the role that the country's mineral, energy and natural resources play in its overall economy. The book finishes with also provides a complete list of the mineral deposits. For each deposit, the book gives detailed information for all students and researchers in the field of geoscientists at the university level but also for

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An Introduction to Economic Geology and Its Environmental Impact - Anthony M. Evans - 2009-05-27

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Introduction to Economic Geology and Its Environmental Impact - Anthony M. Evans - 2009-05-27

As it has grown in length and level through successive editions, the same author's Introduction to Ore Geology (now Ore Geology and Industrial Minerals) has left

behind its original audience: first- and second-year students. This new textbook, designed to fill that niche, was written specifically for introductory courses.

Introduction to Economic Geology and Its Environmental Impact covers oil, coal, water and nuclear fuels, as well as economically important ores and bulk minerals. In

keeping with current concerns and constraints, particular attention is paid to the impact of mining and drilling on the environment.

Understanding Mineral Deposits - Kula Misra - 2012-12-06

Understanding Mineral Deposits has developed are huge deposits for human consumption long before they became objects of scientific curiosity or commercial exploitation. In

fact, the earliest human interest in rocks was probably because of the easily accessible, useful (e.g., red pigment in the form of earthy hematite) or valuable (e.g.,

native gold and gemstones) materials they contained at places. In modern times, the study of mineral deposits has evolved into an applied science employing detailed

field observations, sophisticated laboratory techniques for additional information, and computer modeling to build complex hypotheses. Understanding concepts that

would someday help geologists to find new mineral deposits or exploit the known ones more efficiently have always been, and will continue to be, at the core of any

course on mineral deposits, but it is a fascinating subject in its own right, even for students who do not intend to be professional economic geologists. I believe that a

course on mineral deposits should be designed as a "capstone course" that illustrates a comprehensive application of concepts from many other disciplines in geology

(mineralogy, stratigraphy and sedimentation, structure and tectonics, petrology, geochemistry, paleontology, geomorphology, etc.). This book is intended as a test for

such an introductory course in economic geology, primarily for senior undergraduate and graduate students in colleges and universities. It should also serve as a useful

information resource for professional economic geologists.

The World of Mineral Deposits - Florian Neukirchen - 2020-02-28

This vivid introduction to economic geology not only describes the most important deposit types, but also the processes involved in their formation. Magmatic, hydrothermal and sedimentary processes as well as weathering and alteration are explained in the framework of plate tectonics and the history of the Earth. The chapter on about fossil fuels includes unconventional deposits and the much-debated fracking. Other topics covered are exploration, mining and economic aspects like commodity prices.

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Ore Deposit Geology - John Ridley - 2013-07-04

Mapping closely to how ore deposit geology is now taught, this textbook systematically describes and illustrates the main ore deposit types, linking this to their

settings in the crust and the geological factors behind their formation. Written for advanced undergraduate and graduate students with a basic background in the

geoscientences, it provides a balance of practical information and coverage of the relevant geologic sciences, including petrological, geochemical, hydrological and
tectonic principles. Each chapter starts with a concise description and detailed section on the formation of ore deposits and concludes with an overview of ore

geology, enabling students to make links across the geosciences. Students are supported by further reading, a comprehensive glossary, and problems and review

questions that test the application of theoretical approaches and encourage students to use what they have learnt. A website includes visual resources and

complementary online lessons. The main themes covered include: structural and sedimentary deposits, ore deposits on continental margins, and ore deposits in

the crust, linking to the main ore deposit types and explaining the geological factors behind their formation. Written for advanced undergraduate and graduate

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Critical Mineral Resources of the United States

As the importance and dependence of specific mineral commodities increase, so does concern about their supply. The United States is currently 100 percent reliant on imports for 20 mineral commodities, and the U.S. Geological Survey monitors information on the coverage of the relevant geological sciences, including petrological, geochemical, hydrological, and tectonic processes. Important theory is summarized without unnecessary detail and integrated with students’ learning in other topics, including magmatic processes and plate tectonics. The authors describe the processes that may be critical today and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity’s use; (2) the geography and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity’s production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on imports for a number of mineral commodities. The volume includes regional and country-specific information on how the United States and the world will address the security needs, and the United States will always rely on the mineral commodities.

Critical Mineral Resources of the United States

This richly illustrated book presents an overview of the economic geology of Egypt in the context of the geology of the Arab Region and North Africa. An introductory chapter on history of geological research in Egypt sheds much light on the stages before and after the establishment of Egyptian Geological Survey (the second oldest geological survey worldwide), Hune’s book and Said’s 1962, 1990 books. The book starts with the Precambrian geology of Egypt, in terms of lithostratigraphy and classifications, structural and tectonic framework, crustal evolution and metamorphic belts. A dedicated chapter discusses the Paleozoic Mesozoic-Cenozoic tectonic and structural evolution of Egypt. A chapter highlights the Red Sea tectonics and the Gulf of Suez and Gulf of Aqaba Riffs. Subsequent chapters address the Phanerozoic geology from Paleozoic to Quaternary. The Egyptian Impact Craters and Meteorites and its second edition have been updated and restructured.

Geology of Egypt

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Mineral Economics and Policy

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Economic Evaluations in Exploration

This textbook is a translation of the German textbook “Rechnen für Lagerstättenkundler und Rohstoffberater, Teil 1” published by the Ellen Püffer Publishing Company. Those passages in the German edition which were especially written for the German readership were transformed ed for English speaking readers. Compared with the German edition, the English edition contains more calculations, and includes a chapter on linear optimization. Chapter 10.2 and Chapter 12 on the comparison of ore deposits. The textbook is intended for the economic geologist who deals with the evaluation of deposits at an early stage of development. Once an exploration project has reached the feasibility stage, the exact calculations of the deposit, the technical and economic assessment will be performed by a team of geologists, mining engineers, metallurgists, and economists. In the early stages of exploration, however, any evaluator of deposits has to be able to cover the whole spectrum of information. Since only order of magnitude estimates are possible at this stage, the calculations can only yield order of magnitude results. Precise calculations would even be misleading. The evaluation does not yet aim at an accurate economic assessment but at making the right decision: should the investigation be abandoned or should it be continued at higher costs and with more detailed methods.

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Mineral Deposits

This textbook provides an introduction to the field of mineral economics and its use in understanding the behaviour of mineral commodity markets and in assessing how they respond to the pressures of changing relative supply and demand. This book is written for senior undergraduates and graduate students in the fields of mining engineering and natural resource economics and policy. It should also be of interest to professionals and investors in mining and commodity markets, and those undertaking continuing education in the mineral sector.

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Development Geology Reference Manual

This textbook is a translation of the German textbook “Rechnen für Lagerstättenkundler und Rohstoffberater, Teil 1” published by the Ellen Püffer Publishing Company. Those passages in the German edition which were especially written for the German readership were transformed ed for English speaking readers. Compared with the German edition, the English edition contains more calculations, and includes a chapter on linear optimization. Chapter 10.2 and Chapter 12 on the comparison of ore deposits. The textbook is intended for the economic geologist who deals with the evaluation of deposits at an early stage of development. Once an exploration project has reached the feasibility stage, the exact calculations of the deposit, the technical and economic assessment will be performed by a team of geologists, mining engineers, metallurgists, and economists. In the early stages of exploration, however, any evaluator of deposits has to be able to cover the whole spectrum of information. Since only order of magnitude estimates are possible at this stage, the calculations can only yield order of magnitude results. Precise calculations would even be misleading. The evaluation does not yet aim at an accurate economic assessment but at making the right decision: should the investigation be abandoned or should it be continued at higher costs and with more detailed methods.
elements of Petroleum Geology - Richard C. Selly - 2014-11-08

This Third Edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the field since publication of the Second Edition.

It is a book for geologists, engineering geologists, and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area.

It is also an excellent introductory text for a university course in petroleum geoscience. Elements of Petroleum Geology begins with an account of the physical and chemical properties of petroleum, methods of petroleum exploration and production. The second edition includes petroleum geology, drilling techniques, and indirect and geophysical methods. This includes a discussion of the chemical composition and properties of the various petroleum fractions, and the methods of petroleum exploration and production.

This book is a useful primer for geophysicists, geologists, and petroleum reservoir engineers. Updated statistics throughout include additional features to illustrate key points and new developments.

New information on drilling activity and petroleum methods including crude oil, directional drilling, drilling techniques, and gas. The book also includes a detailed description of the mineral deposits of metallic, non-metallic, solid energy, gemstones and industrial minerals in Nigeria, West Africa with emphasis on their location, geological setting, mode of occurrence, physical and chemical characteristics, ore reserve estimates and mineralogy. It also provides a geoscientific analysis of the solid mineral sector, mineral production statistics, mining, and potential targets for mineral exploration. There are twenty chapters in the book divided into parts: Mineral Deposits in Nigeria, Part 1: Geology; Geology and Geophysics; Part 2: Exploration Methods; Part 3: Case Studies; Part 4: Case Studies. This book is an essential resource for researchers and scientists in multiple fields, including exploration and economic geologists, mineralogists, geoscientists, and environmental scientists. It features a comprehensive review of the primary academic literature and includes an extensive bibliography. This book is a useful resource for exploration geologists, mining engineers, geologists, and petrologists in the solid mineral sector.
geological features throughout Turkey. Taking into account the lack of international literature on these resources, a considerable portion of the book explains the geographical context of the region and the settings in which the mineral resources occur. The genetic characteristics of these mineral resources are emphasized and important information is also presented on their economic aspects. All chapter contributions are prepared by researchers and professional geologists.

Regional Geology and Tectonics: Principles of Geologic Analysis, 2nd edition is the first in a three-volume series covering Phanerozoic regional geology and tectonics. The new edition provides updates to the first edition’s detailed overview of geologic processes, and includes new sections on plate tectonics, petroleum systems, and new methods of geological analysis. This book provides both professionals and students with the basic principles necessary to grasp the conceptual approaches to hydrocarbon exploration in a wide variety of geological settings globally. Discusses in detail the principles of regional geological analysis and the main geological and geophysical tools. Captures and identifies the tectonics of the world in detail, through a series of unique geographic maps, allowing quick access to exact tectonic locations.

Regional Geology and Tectonics: Principles of Geologic Analysis - Nicola Scarselli - 2020-06-17


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