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U.S. Geological Survey Bulletin - Kenneth L. Tanaka 1983
A workshop report on the rationale for airborne remote sensing in earth science in the next decade.
New Publications of the U.S. Geological Survey - Geological Survey (U.S.) 1990

Remote Sensing for Geoscientists - Gary L. Prost 2013-12-13
This third edition of the bestselling Remote Sensing for Geologists: A Guide to Image Interpretation is now titled Remote Sensing for Geoscientists: Image Analysis and Integration. The title change reflects that this edition applies to a broad spectrum of geosciences, not just geology; stresses that remote sensing has become more than photointerpretation; and emphasizes integration of multiple remote sensing technologies to solve Earth science problems. The text reviews systems and applications, explains what to look for when analyzing imagery, and provides abundant case histories to illustrate the integration and application of these tools. See What's New in the Second Edition: Broader coverage to include integration of multiple remote sensing technologies Expanded with significant new illustrations in color and reviews of new satellites and sensors Analysis of imagery for geobotanical remote sensing, remote geochemistry, modern analogs to ancient environments, and astrogeology The book covers how to initiate a project, including determining the objective, choosingthe right tools, and selecting imagery. It describes techniques used in geologic mapping and mineral and hydrocarbon exploration, image analysis used in mine development and petroleum exploitation, site evaluation, groundwaterdevelopment, surface water monitoring, geothermal resource exploitation, and logistics. It also demonstrates how imageryis used to establish environmental baselines; monitor land, air, and water quality; maphazards; and determine the effects of global warming. The many examples of geologic mapping on other planets and the moon highlight how to analyze planetary surface processes, map stratigraphy, and locate resources. The book then examines remote sensing and the public, geographic information systems and Google Earth, and how imagery is used by the media, in the legal system, in public relations, and by individuals. Readers should come away with a good understanding of what is involved in image analysis and interpretation and should be ableto recognize and identify geologic features of interest. Having read this book, they should be able to effectively use imagery in petroleum, mining, groundwater, surface water, engineering, and environmental projects.
New Publications of the Geological Survey - Geological Survey (U.S.) 1991

Geological Survey Research, Fiscal Year 1981 - Geological Survey (U.S.) 1984

Mineral Exploration: Practical Application - G.S. Roonwal 2017-08-22
The book introduces essential concept of mineral exploration, mine evaluation and resource assessment of the discovered mineral deposit to students, beginners and professionals. The book is divided into nine chapters which will help the readers to incorporate the concepts of search for mineral deposits and understand the chances of success. The book discusses the fundamental details like composition of earth and mineral resources, formation of rock and mineral deposits, and the attempt to search for ore deposits to advance applications of remote sensing in mineral exploration. It also covers the details on how to conduct system of survey, evaluation, and how to arrive at a decision to open and carryout further exploration in the operating mine. The book shall be of great interest to geologists and mining community.
Geological Survey Bulletin - 1973

Applied Subsurface Geological Mapping with Structural Methods - Daniel J. Tearpock 2002-08-16
Applied Subsurface Geological Mapping, With Structural Methods, 2nd Edition is the practical, up-to-the-minute guide to the use of subsurface interpretation, mapping, and structural techniques in the search for oil and gas resources. Two of the industry's leading consultants present systematic coverage of the field's key principles and newest advances, offering guidance that is valuable for both exploration and development activities, as well as for "detailed" projects in maturely developed areas. Fully updated and expanded, this edition combines extensive information from the published literature with significant material never before published. The authors introduce superior techniques for every major petroleum-related tectonic setting in the world. Coverage includes: A systematic, ten-step philosophy for subsurface interpretation and mapping The latest computer-based contouring concepts and applications Advanced manual and computer-based log correlation Integration of geophysical data into subsurface interpretations and mapping Cross-section construction: structural, stratigraphic, and problem-solving Interpretation and generation of valid fault, structure, and isochore maps New coverage of 3D seismic interpretation, from project setup through documentation Compressional and extensional structures: balancing and interpretation In-depth new coverage of strike-slip faulting and related structures Growth and correlation consistency techniques: expansion indices, Multiple Bischke Plot Analysis, vertical separation versus depth, and more Numerous field examples from around the world Whatever your role in the adventure of finding and developing oil or gas resources–as a geologist, geophysicist, engineer, technologist, manager or investor–the tools presented in this book can make you significantly more effective in your daily technical or decision-oriented activities.
Applied Three Dimensional Subsurface Geological Mapping - Daniel Tearpock 2020-05-18
The Gold-Standard "Bible" for Subsurface Geological Mapping: Extensively Updated for the Field's Latest Advances Long recognized as the most authoritative, practical, and comprehensive guide to structural mapping methods, Applied Three-Dimensional Subsurface Geological Mapping, Third Edition, has been thoroughly updated to reflect recent technical developments, with an emphasis on shale play basins, unconventional resources, and modern workflows. The authors of this edition have more than a century of collective experience in hydrocarbon exploration and development, and in this long-awaited update, they present new chapters on computer mapping, shale basin exploration, and prospect reserves and risk analysis. They introduce key innovations related to shale reservoirs, hydraulic fracturing, deviated wells, and directional wells, and expanded discussions of computer geologic interpretation and mapping. Throughout, the book links theory and practice to help you integrate all available geologic, engineering, and geophysical data, generate more reasonable subsurface interpretations, and build maps that successfully identify reserves. Master core principles and proven methods for accurate subsurface interpretation and mapping Construct subsurface maps and cross-sections from well logs, seismic sections, and outcrops Work effectively with directionally drilled wells and directional surveys Use powerful log

correlation techniques Build fault and structure maps Balance and interpret compressional and extensional structures Characterize strike-slip faults and growth structures Understand isochore and isopach maps This book is indispensable for every geologist, geophysicist, and engineer who prepares subsurface geological interpretations and maps, as well as for every manager, executive, and investor who uses or evaluates them.

Geochemical Exploration and Modelling of Concealed Mineral Deposits - Ashoke K. Talapatra 2020-10-06

This book discusses potential mineral belts in various geotectonic regions around the globe, with a particular focus on concealed deposits, in order to highlight new areas for geochemical exploration and modelling. In recent years, the application of statistical methods using qualitative and, wherever possible, quantitative earth science data has become increasingly common for the evaluation of both offshore and terrestrial mineral resources. The book examines these approaches and provides examples from India, which are also applicable to deposits around the world, particularly those in South and South East Asia. The main objective of geochemical exploration and modelling is to present the geometry of the deposit in three dimensions. As such, the book describes the various conventional and non-conventional techniques of exploration geochemistry, especially in the context of concealed terrestrial and offshore mineral deposits. It serves as a guide for field geologists, geochemists, students, research scholars and scientists interested in earth science for the exploration of concealed mineral deposits and evaluation of their resources.

Geological Methods in Mineral Exploration and Mining - Roger Marjoribanks 2012-12-06

This book is written as a practical field manual to effective. Each geolOgist has to develop his/her be used by geologists engaged in mineral explo own techniques and will ultimately be judged on ration. It is also hoped that it will serve as a text results, not the process by which these results and reference for students in Applied Geology were reached. In mineral exploration, the only courses of universities and colleges. The book 'right' way of doing anything is the way that aims to outline some of the practical skills that locates ore in the quickest and most cost-effective turn the graduate geologist into an explo manner. It is preferable, however, for an individ rationist:. It is intended as a practical 'how to' ual to develop his/her own method of operation book, rather than as a text on geological or ore after having tried, and become aware of, those deposit theory. procedures which experience has shown to work An explorationist is a professional who search well and which are generally accepted in indus try as good exploration practice. es for ore bodies in a scientific and structured way. Although an awkward and artificial term, The chapters of the book approximately fol this is the only available word to describe the low the steps which a typical exploration pro totality of the skills which are needed to locate gramme would go through. In Chapter 1, the and define economic mineralization.

Gravity and Magnetic Methods for Geological Studies - Dinesh C. Mishra 2011-11-28

Gravity and magnetic methods can be directly related to physical properties of rocks, i.e. the density and the susceptibility, and are very useful to field geologists and geophysicists in the mapping and identification of various rock types. They are also used for the detection of minerals with large contrast in density and susceptibility compared to country rock. This reference volume consists of two parts: The first part describes the basic principles and methodology of the gravity and the magnetic methods of geophysical exploration with global examples. It deals with geological studies and gravity & magnetic methods; geodynamic studies (plate tectonics, crustal structures, plume tectonics); resource exploration (geological mapping, hydrocarbon, mineral and groundwater exploration); environmental studies (seismotectonics, engineering sites, climate changes, mining geophysics, volcanoes and volcanic activity, landslides, impact craters) and different modes of surveying. The second part is dedicated to the Indian Continent and deals with the application of geological data, integrated with other geophysical and geological information. It discusses geodynamics and seismotectonics with respect to the Indian Plate zone, including the Indian Ocean, Himalaya, Tibet and Archean- Proterozoic Cratons and Mobile Belts. It also presents ways for integrated exploration for hydrocarbons, minerals, groundwater and a number of environmental issues relevant in engineering and archaeology. The accessible style of this unique work will benefit researchers, professionals, advanced students and interested readers in Geophysics, Geology, Economic Geology, Geological Engigeering, Geography, Mineralogy and related disciplines.

Applied Geochemistry - Athanas S. Macheyeki 2020-02-14

Applied Geochemistry: Advances in Mineral Exploration Techniques is a book targeting all levels of exploration geologists, geology students and geoscientists working in the mining industry. This reference book covers mineral exploration techniques from multiple dimensions, including the application of statistics - both principal component analysis and factor analysis - to multifractal modeling. The book explains these approaches step-by-step and gives their limitations. In addition to techniques and applications in mineral exploration, Applied Geochemistry describes mineral deposits and the theories underpinning their formation through worldwide case studies. Includes both conventional and nonconventional techniques for mineral exploration, including lithogeochemical methods Highlights the importance and applications of multifractal models, 3D - mineral prospectivity modeling Features case studies from mines and mineral exploration ventures around the world

Field Methods for Geologists and Hydrogeologists - Fakhry A. Assaad 2013-03-09

From the reviews: "...is a "must" for serious field novices, and for seasoned middle-career and senior practitioners in hydrogeology, mainly those people who answer a calling to offer honest and accurate hydrogeological approximations and findings. Any engineering geologist or groundwater geologist who claims capability as a "Hydrogeologist" should own this book and submit it to highlighting and page tabbing. Of course, the same goes for those who practice in karst terranes, as author LaMoreaux is one of the pioneers in this field, worldwide..." (Allen W. Hatheway)

Applied Geochemistry with Case Studies on Geological Formations, Exploration Techniques and Environmental Issues - Felipe Luis Mazadiego 2020-02-05

U.S. Geological Survey Professional Paper - 1927

Analytical Chemistry of Uranium - Zeev Karpas 2014-11-21

Accurate uranium analysis, and particularly for isotope measurements, is essential in many fields, including environmental studies, geology, hydrogeology, the nuclear industry, health physics, and homeland security. Nevertheless, only a few scientific books are dedicated to uranium in general and analytical chemistry aspects in particular. Analytical Chemistry of Uranium: Environmental, Forensic, Nuclear, and Toxicological Applications covers the fascinating advances in the field of analytical chemistry of uranium. Exploring a broad range of topics, the book focuses on the analytical aspects of industrial processes that involve uranium, its presence in the environment, health and biological implications of exposure to uranium compounds, and nuclear forensics. Topics include: Examples of procedures used to characterize uranium in environmental samples of soil, sediments, vegetation, water, and air Analytical methods used to examine the rigorous specifications of uranium and its compounds deployed in the nuclear fuel cycle Health aspects of exposure to uranium and the bioassays used for exposure assessment Up-to-date analytical techniques used in nuclear forensics for safeguards in support of non-proliferation, including single particle characterization Each chapter includes an overview of the topic and several examples to demonstrate the analytical procedures. This is followed by sample preparation, separation and purification techniques where necessary. The book supplies readers with a solid understanding of the analytical chemistry approach used today for characterizing the different facets of uranium, providing a good starting point for further investigation into this important element.

Monthly Catalog of United States Government Publications, Cumulative Index - United States. Superintendent of Documents 1976

Prospecting and Exploration of Mineral Deposits - Miloš Kužvart 1978

GB/T 17766-1999: Translated English of Chinese Standard. (GBT 17766-1999, GB/T17766-1999, GBT17766-1999) - https://www.chinesestandard.net 2019-07-12

This Standard specifies the scope, definition, classification, category, code, etc. of classification for resources/reserves of solid fuels and mineral commodities. This Standard is applicable to preparing design, deploying work, calculating reserves (resources), and formulating report during various phases of solid

fuels and mineral resources exploration, development periods. It is also applicable to assessing, registering, figuring out the solid fuels and mineral resources/reserves; planning, making plans, making solid fuels and mineral resource polices, preparing specifications, regulations and guidelines for fuels and minerals resource exploration. It can also serve as basis for evaluating and calculating the fuels and mineral resources/reserves during the following activities, such as mining rights transferring, fuels and mineral resources exploring and developing, as well as financing, etc.

New Concepts and Discoveries - William M. Pennell 2015-06-12

Scientific analyses of the geology, metallogeny, and mineralization of gold, silver and other high-value elements in the western USATechnical details on working mines, exploration results, new depositsPresentations produced with the United States Geological Survey, Society of Economic GeologistsTwo-volume book set printed in full color with full-text searchable CD-ROM Produced under the auspices of the Geological Society of Nevada and published every five years, this two-volume book of peer-reviewed papers focuses on the geological analysis of ore-rich deposits in the western United States, especially ones containing gold and other high-value elements. Hundreds of stratigraphic, lithographic, remote-sensing and core sample examples are presented, particularly of areas likely to host Carlin-type gold deposits. The two volumes contain a wealth of data on specifically named mines, as well as technical information on high-potential areas for exploration. The book is profusely illustrated with full-color maps, photographs and charts for geology and mining engineering. A searchable CD accompanies the book and includes the full text of papers from the printed book, as well as abstracts and information from poster sessions not found in the printed book. Chapters in the text are fully refereed versions of presentations originally delivered at a symposium supported by the Geological Society of Nevada, along with the United States Geological Survey, Society of Economic Geologists and the Nevada Bureau of Mines. Sample key words: metallogeny, gold, epithermal ore, magmatism, Carlin trend, square array void mapping (SAVM), porphyry copper, tungsten, orogeny, lithogeochemistry, 3-D resistivity and modeling, fault-surface mapping, airborne electromagnetics and more. *The CD-ROM displays figures and illustrations in articles in full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and session title. The CD-ROM has Autorun feature for Windows 2000 or higher products and can also be used with Macintosh computers. The CD includes the program for Adobe Acrobat Reader with Search 11.0. One year of technical support is included with your purchase of this product.

Exploration and Mining Geology - William C. Peters 1978

Using the concepts and practices of applied geology as its central theme, here is a balanced and comprehensive treatment of the geological, geochemical, geophysical, and economic elements of exploration and mining. Offers an overview of the methods and aims in mineral exploration and production and gives coverage of the geologic principles of ore deposits and the geomorphic environment. Deals with ``hard'' minerals and the nonfluid sources of materials and energy in the continental masses and in ocean basins. This edition has been expanded to include recent advances in applications of satellite imagery, lithogeochemical surveys, isotope geochemistry, and other developments in the field. Also covers current uses of computers in mineral exploration programs. Features case histories, a current references section, and financial data.

Geological Methods in Mineral Exploration and Mining - Roger Marjoribanks 1997-07-31

This book is written as a practical field manual to effective. Each geolOgist has to develop his/her be used by geologists engaged in mineral explo own techniques and will ultimately be judged on ration. It is also hoped that it will serve as a text results, not the process by which these results and reference for students in Applied Geology were reached. In mineral exploration, the only courses of universities and colleges. The book 'right' way of doing anything is the way that aims to outline some of the practical skills that locates ore in the quickest and most cost-effective turn the graduate geologist into an explo manner. It is preferable, however, for an individ rationist:. It is intended as a practical 'how to' ual to develop his/her own method of operation book, rather than as a text on geological or ore after having tried, and become aware of, those deposit theory. procedures which experience has shown to work An explorationist is a professional who search well and which are generally accepted in indus try as good exploration practice. es for ore bodies in a scientific and structured way. Although an awkward and artificial term, The chapters of the book approximately fol this is the only available word to describe the low the steps which a typical exploration pro totality of the skills which are needed to locate gramme would go through. In Chapter 1, the and define economic mineralization.

Rock Mechanics: Achievements and Ambitions - Meifeng Cai 2011-09-22

Rock Mechanics: Achievements and Ambitions contains the papers accepted for the 2nd ISRM International Young Scholars' Symposium on Rock Mechanics, which was sponsored by the ISRM and held on 14–16 October 2011 in Beijing, China, immediately preceding the 12th ISRM Congress on Rock Mechanics. Highlighting the work of young teachers, researchers and practitioners, the present work provides an important stimulus for the next generation of rock engineers, because in the future there will be more emphasis on the use of the Earth's resources and their sustainability, and more accountability of engineers' decisions. In this context, it is entirely appropriate that the Symposium venue for the young scholars was in China — because of the rock mechanics related work that is anticipated in the future. For example, in the Chinese Academy of Sciences report, "Energy Science and Technology in China: A Roadmap to 2050", it is predicted that China's total energy demand will reach 31, 45, 61 and 66 x 108 tce (tonnes of coal equivalent) in 2010, 2020, 2035, 2050. The associated per capita energy consumption for the same years is estimated at 2.3, 3.1, 4.1 and 4.6 tce. This increasing demand will be met, inter alia, by the continued operation and development of new coal mines, hydroelectric plants and nuclear power stations with one or more underground nuclear waste repositories, all of which will be improved by more modern methods of rock engineering design developed by young scholars. In particular, enhanced methods of site investigation, rock characterisation, rock failure understanding, computer modelling, and rock excavation and support are needed. The topics in the book include contributions on: - Field investigation and observation - Rock constitutive relations and property testing - Numerical and physical modeling for rock engineering - Information technology, artificial intelligence and other advanced techniques - Underground and surface excavation and reinforcement techniques - Dynamic rock mechanics and blasting - Predication and prevention of geo-environmental hazard - Case studies of typical rock engineering Many of the 200 papers address these topics and demonstrate the skills of the young scholars, indicating that we can be confident in the continuing development of rock mechanics and rock engineering, leading to more efficient, safer and economical structures built on and in rock masses. Rock Mechanics: Achievements and Ambitions will appeal to professionals, engineers and academics in rock mechanics, rock engineering, tunnelling, mining, earthquake engineering, rock dynamics and geotechnical engineering.

Geological Survey Professional Paper - Geological Survey (U.S.) 1982

List of U.S. Geological Survey Geologic and Water-supply Reports and Maps for Alaska - Geological Survey (U.S.) 1987

Elements of Petroleum Geology - Richard C. Selley 1998

This third edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the years since publication of the First Edition. This book is a useful primer for geophysicists, 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, reviewing methods of petroleum exploration and production. These methods include drilling, geophysical exploration techniques, wireline logging, and subsurface geological mapping. After describing the temperatures and pressures of the subsurface environment and the hydrodynamics of connate fluids, Selley examines the generation and migration of petroleum, reservoir rocks and trapping mechanisms, and the habit of petroleum in sedimentary basins. The book contains an account of the composition and formation of tar sands and oil shales, and concludes with a brief review of prospect risk analysis, reserve estimation, and other economic topics. Updates the first edition completely Reviews the concepts and

methodology of petroleum exploration and production Written by a preeminent petroleum geologist and sedimentologist with 30 years of petroleum exploration in remote corners of the world Contains information pertinent to geophysicists, geologists, and petroleum reservoir engineers

Geographic Information Systems (GIS) and Mapping - Arnold Ivan Johnson 1992

Innovative Exploration Methods for Minerals, Oil, Gas, and Groundwater for Sustainable Development - A. K. Moitra 2021-12-08

Innovative Exploration Methods for Mineral, Oil, Gas, and Groundwater for Sustainable Development provides an integrated approach to exploration encompassing geology, geophysics, mining, and mineral processing. In addition, groundwater exploration is included, as it is central to the development of earth resources. As the demand for coal, minerals, oil and gas, and water continues to grow globally, researchers must prioritize sustainable exploration methods. Old technologies are being replaced speedily and exploration work has become fast, focused, meaningful, and readily reproducible keeping in pace with the changing global scenario. The themes of exploration of energy resources, exploration of minerals, groundwater exploration and processing and mineral engineering are separated out into sections and chapters included in these sections include case studies focusing on tools and techniques for exploration. Innovative Exploration Methods for Mineral, Oil, Gas, and Groundwater for Sustainable Development gives insight to modern concepts of exploration for those working in the various fields of energy, mineral, and groundwater exploration. Presents innovative research that will both challenge and complement the traditional concepts of exploration Covers a wide range of instruments and their applications, as well as the tools and processes that need to be followed for modern exploration work Includes research on groundwater exploration with a focus on conservation and sustainable exploration and development

Techniques in Mineral Exploration - J.H. Reedman 2012-12-06

For some years I have felt there was a need for a single, comprehen sive, reference book on exploration geology. Numerous textbooks are available on subjects such as geophysical prospecting, exploration geochemistry, mining geology, photogeology and general economic geology, but, for the geologist working in mineral exploration, who does not require a specialist's knowledge, a general book on explora tion techniques is needed. Many undergraduate university courses tend to neglect economic geology and few deal with the more prac tical aspects in any detail. Graduate geologists embarking on a career in economic geology or mineral exploration are therefore often poorly equipped and have to learn a considerable amount 'on the job'. By providing a book that includes material which can be found in some of the standard texts together with a number of practical aspects not to be found elsewhere, I hope that both recent graduates and more experienced exploration geologists will find it a useful reference work and manual. In addition, students of economic geology and personnel working in related fields in the mining and mineral extraction in dustries will find it informative. J. H. REEDMAN v Acknowledgements The author would like to thank Dr K. Fletcher, geochemist with the Department of Geology, University of British Columbia, and Kari Savario, geophysicist with Finnish Technical Aid to Zambia, for reading the original drafts and offering constructive criticism and advice on the chapters on geochemical and geophysical prospecting respectively.

Publications of the U.S. Geological Survey, 1971-1981 - 1986

Records of the Geological Survey of India - Geological Survey of India 2007

1867- includes the "Annual report of the Geological survey of India".

Survey of World Iron Ore Resources: Occurence, Appraisal and Use - United Nations. Committee of Experts on Iron Ore Resources 1955

Geological Methods in Mineral Exploration and Mining - Roger Marjoribanks 2010-06-01

This practical step-by-step guide describes the key geological field techniques needed by today's exploration geologists involved in the search for metallic deposits. The techniques described are fundamental to the collection, storage and presentation of geological data and their use to locate ore. This book explains the various tasks which the exploration geologist is asked to perform in the sequence in which they might be employed in an actual exploration project. Hints and tips are give. The steps are illustrated with numerous examples drawn from real projects on which the author has worked. The book emphasizes traditional skills and shows how they can be combined effectively with modern technological approaches.

U.S. Geological Survey Bulletin - 1983

India Oil and Gas Exploration Laws, Regulations Handbook Volume 1 Strategic Information and Basic Laws - IBP, Inc. 2017-08-11

The real-life answers to Italo Calvino’s Invisible Cities, Unruly Places explores the most extraordinary, off-grid, offbeat places on the planet. Alastair Bonnett’s tour of the planet’s most unlikely micro-nations, moving villages, secret cities, and no man’s lands shows us the modern world from surprising new vantage points, bound to inspire urban explorers, off-the-beaten-trail wanderers, and armchair travelers. He connects what we see on maps to what’s happening in the world by looking at the places that are hardest to pin down: inaccessible zones, improvised settlements, multiple cities sharing the same space. Consider Sealand, an abandoned gun platform off the English coast that a British citizen claimed as his own sovereign nation, issuing passports and making his wife a princess. Or Baarle, a patchwork city of Dutch and Flemish enclaves where crossing the street can involve traversing national borders. Or Sandy Island, which appeared on maps well into 2012 despite the fact it never existed. Illustrated with original maps and drawings, Unruly Places gives readers a new way of understanding the places we occupy.

Mineral Resources - Manuel Bustillo Revuelta 2017-08-23

This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities. It begins with general concepts like definitions of mineral resources, mineral resources and humans, recycling mineral resources, distribution of minerals resources across Earth, and international standards in mining, among others. Then it turns to a classification of mineral resources, covering the main types from a geological standpoint. The exploration of mineral resources is also treated, including geophysical methods of exploration, borehole geophysical logging, geochemical methods, drilling methods, and mineral deposit models in exploration. Further, the book addresses the evaluation of mineral resources, from sampling techniques to the economic evaluation of mining projects (i.e. types and density of sampling, mean grade definition and calculation, Sichel’s estimator, evaluation methods – classical and geostatistical, economic evaluation – NPV, IRR, and PP, estimation of risk, and software for evaluating mineral resources). It subsequently describes key mineral resource exploitation methods (open pit and underground mining) and the mineral processing required to obtain saleable products (crushing, grinding, sizing, ore separation, and concentrate dewatering, also with some text devoted to tailings dams). Lastly, the book discusses the environmental impact of mining, covering all the aspects of this very important topic, from the description of diverse impacts to the environmental impact assessment (EIA), which is essential in modern mining projects.

U.S. Geological Survey Bulletin - Dwight Raymond Crandell 1989

This publication summarizes data for earthquakes that occurred in the 50 states and Puerto Rico during 1984. Descriptions of individual earthquakes include hypocenters, magnitudes, intensities, and damages. The report also contains results from regional networks and data recorded by strong-motion seismographs.

Essentials of Mineral Exploration and Evaluation - S. M. Gandhi 2016-05-10

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

Aerospatial Remote Sensing in Geology - Jean-Yves Scanvic 1997-01-01

Using numerous operational and research-oriented examples, this text seeks to explain how the human eye and brain can extract and use remotely sensed data in the fields of applied geology and mineral exploration.