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Final Environmental Statement for the Geothermal Leasing Program: Promulgation of leasing and operating regulations-United States. Department of the Interior 1973

Information on Soviet Bloc International Geophysical Cooperation-United States. Department of Commerce. Office of Technical Services 1960 Contains unevaluated information...from foreign-language publications.

Discussion and Analysis of Proposed Geological and Geophysical Mining Claims Act of 1947 (statement of Subcommittee Draft of Bill Dated December 31, 1946)-United States. Congress. Senate. Special Committee to Study Problems of American Small Business. Subcommittee on Mining and Minerals Industry 1947

Geophysical Inversion-J. Bee Bednar 1992-01-01 This collection of papers on geophysical inversion contains research and survey articles on where the field has been and where it's going, and what is practical and what is not. Topics covered include seismic tomography, migration and inverse scattering.

New Zealand Journal of Geology and Geophysics- 1968-03

Federal Register- 1979-02

Transactions - American Geophysical Union-American Geophysical Union 1945

Annual Report of the Director of the Geophysical Laboratory-Carnegie Institution of Washington. Geophysical Laboratory 1955

Geophysics- 1960-06

Geoscience Data and Collections-National Research Council 2002-09-23 Geoscience data and collections (such as, rock and sediment cores, geophysical data, engineering records, and fossils) are necessary for industries to discover and develop domestic natural resources to fulfill the nation's energy and mineral requirements and to improve the prediction of immediate and long term hazards, such as land slides, volcanic eruptions and global climate change. While the nation has assembled a wealth of geoscience data and collections, their utility remains incompletely tapped. Many could act as invaluable resources in the future but immediate action is needed if they are to remain available. Housing of and access to geoscience data and collections have become critical issues for industry, federal and state agencies, museums, and universities. Many resources are in imminent danger of being lost through mismanagement, neglect, or disposal. A striking 46 percent of the state geological surveys polled by the committee reported that there is no space available or they have refused to accept new material. In order to address these challenges, Geoscience Data and Collections offers a comprehensive strategy for managing geoscience data and collections in the United States.

Radioisotope Tracers in Industry and Geophysics- 1967

Geophysical Interpretations of Bristlecone Pine Radiocarbon Measurements Using a Method of Fourier Analysis of Unequally Spaced Data-Jan Cornelius Houtermans 1971

Statistical Methods and Instrumentation in Geophysics-Anton G. Kjelaas 1971

Draft Supplemental Environmental Impact Statement for the Prototype Oil Shale Leasing Program- 1982

Geoscience Reporting Guidelines-Brian Grant 2003

Digital Geoarchaeology-Christoph Siart 2017-12-03 This book focusses on new technologies and multi-method research designs in the field of modern archaeology, which increasingly crosses academic boundaries to investigate past human-environmental relationships and to reconstruct palaeolandscapes. It aims at establishing the concept of Digital Geoarchaeology as a novel approach of interdisciplinary collaboration situated at the scientific interface between classical studies, geosciences and computer sciences. Among others, the book includes topics such as geographic information systems, spatiotemporal analysis, remote sensing applications, laser scanning, digital elevation models, geophysical prospecting, data fusion and 3D visualisation, categorized in four major sections. Each section is introduced by a general thematic overview and followed by case studies, which vividly illustrate the broad spectrum of potential applications and new research designs. Mutual fields of work and common technologies are identified and discussed from different scholarly perspectives. By stimulating knowledge transfer and fostering interdisciplinary collaboration, Digital Geoarchaeology helps generate valuable synergies and contributes to a better understanding of ancient landscapes along with their forming processes. Chapters 1, 2, 6, 8 and 14 are published open access under a CC BY 4.0 license at link.springer.com.

Treatise on Geophysics- 2015-04-17 Treatise on Geophysics, Second Edition, is a comprehensive and in-depth study of the physics of the Earth beyond what any geophysics text has provided previously. Thoroughly revised and updated, it provides fundamental and state-of-the-art discussion of all aspects of geophysics. A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution. Additional features include new material in the Planets and Moon, Mantle Dynamics, Core Dynamics, Crustal and Lithosphere Dynamics, Evolution of the Earth, and Geodesy volumes. New material is also presented on the uses of Earth gravity measurements. This title is essential for professionals, researchers, professors, and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science. Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state-of-the-art discussions of all research topics Integration of topics into a coherent whole

Geophysical Image Estimation by Example-Jon Claerbout 2014-09-30 Illuminates geophysical and mathematical concepts with exemplar computer code and applications using acoustic, seismic, radar, astrophysical, and X-ray probe data to create images of tops and bottoms of lake and ocean, a volcano, petroleum prospects, and internals of breast and sun.

Paleomagnetism and Its Application to Geological and Geophysical Problems-E. Irving 1964

Indian Journal of Meteorology, Hydrology & Geophysics- 1976

The Geophysical Journal- 1977 Vols. 11 and 13 includes the Proceedings of the 2nd, 3rd, International Symposium on Geophysical Theory and Computers, Rehovoth, Israel, etc., 1965-66.

Preliminary Report on Geophysical Survey of the Collie Coal Basin-N. G. Chamberlain 1948

Fundamentals of Geophysical Data Processing-Jon F. Claerbout 1976

Directory of Research Projects, 1991. Planetary Geology and Geophysics Program-Ted A. Maxwell 1991

Draft Environmental Impact Report/environmental Impact Statement for Proposed ARCO Coal Oil Point Project- 1986

Exploration Seismology-R. E. Sheriff 1995-08-25 This is the completely updated revision of the highly regarded book Exploration Seismology. Available now in one volume, this textbook provides a complete and systematic discussion of exploration seismology. The first part of the book looks at the history of exploration seismology and the theory - developed from the first principles of physics. All aspects of seismic acquisition are then described. The second part of the book goes on to discuss data-processing and interpretation. Applications of seismic exploration to groundwater, environmental and reservoir geophysics are also included. The book is designed to give a comprehensive up-to-date picture of the applications of seismology. Exploration Seismology's comprehensiveness makes it suitable as a text for undergraduate courses for geologists, geophysicists and engineers, as well as a guide and reference work for practising professionals.

Geophysical Abstracts- 1977

Geophysical Research Bulletin- 1975

Evolutionary and Revolutionary Technologies for Mining-National Research Council 2002-03-14 The Office of Industrial Technologies (OIT) of the U. S. Department of Energy commissioned the National Research Council (NRC) to undertake a study on required technologies for the Mining Industries of the Future Program to complement information provided to the program by the National Mining Association. Subsequently, the National Institute for Occupational Safety and Health also became a sponsor of this study, and the Statement of Task was expanded to include health and safety. The overall objectives of this study are: (a) to review available information on the U.S. mining industry; (b) to identify critical research and development needs related to the exploration, mining, and processing of coal, minerals, and metals; and (c) to examine the federal contribution to research and development in mining processes.

Journal of Geophysical Research- 1959-11

Practical and Theoretical Aspects of Geological Interpretation of Gravitational, Magnetic and Electric Fields-Danis Nurgaliev 2019-02-01 This volume offers an overview of the state-of-the-art theoretical and practical approaches currently used for geophysical data interpretation. It includes new methods and techniques for solving data processing problems, and an analysis of geopotential fields by international researchers. It discusses topics such as: 1. Theoretical issues of interpretation of gravitational, magnetic and electric fields, including general methods of interpreting potential fields and other geophysical data. 2. Modern algorithms and computer technologies for interpreting geophysical fields. 3. The study of Earth deep structure using terrestrial and satellite potential field anomalies. 4. Geological interpretation of gravitational, magnetic and electric fields. This proceedings book is of interest to all geophysical researchers.

Bulletin of the National Geophysical Research Institute- 1975

Fundamentals of Geophysics-William Lowrie 2007-09-20 This second edition of Fundamentals of Geophysics has been completely revised and updated, and is the ideal geophysics textbook for undergraduate students of geoscience with an introductory level of knowledge in physics and mathematics. It gives a comprehensive treatment of the fundamental principles of each major branch of geophysics, and presents geophysics within the wider context of plate tectonics, geodynamics and planetary science. Basic principles are explained with the aid of numerous figures and step-by-step mathematical treatments, and important geophysical results are illustrated with examples from the scientific literature. Text-boxes are used for auxiliary explanations and to handle topics of interest for more advanced students. This new edition also includes review questions at the end of each chapter to help assess the reader's understanding of the topics covered and quantitative exercises for more thorough evaluation. Solutions to the exercises and electronic copies of the figures are available at www.cambridge.org/9780521859028.

Impact of Technology on Geophysics-Assembly of Mathematical and Physical Sciences (U.S.). Geophysics Study Committee 1979

ASTM Standards on Environmental Sampling-American Society for Testing Materials 1995 Includes sampling methods for soil and water.

Engineering Risk in Natural Resources Management-L. Duckstein 1994-09-30 This book provides a system framework to observe, detect and monitor changes in geophysical time series for the purpose of managing natural -- mostly water -- resources. The institutional aspects of risk are considered to be an integral part of the management system. Original and novel features include the definitions of institutions, the development of forecasting and control schemes under non-steady inputs and the point of view of practitioners, all embedded in a common framework for reliability and risk analysis. The first three chapters provide the model-based systems design and control framework, and then the methodology for physical and stochastic analysis of the changing forcing function and hydrometeorological input series. The next two chapters deal with consequences of climate change, in particular, its potential effect on river flows, sea level rise, water quality and extreme floods respectively. The last two chapters develop engineering decisions, policy considerations and case examples. Whereas most reliability and risk analysis books have dealt with steady-state conditions, we are specifically focusing on the difficult problems of observations and management to be done in a non-stationary environment.

Inverse Problem Theory and Methods for Model Parameter Estimation-Albert Tarantola 2005-01-01 While the prediction of observations is a forward problem, the use of actual observations to infer the properties of a model is an inverse problem. Inverse problems are difficult because they may not have a unique solution. The description of uncertainties plays a central role in the theory, which is based on probability theory. This book proposes a general approach that is valid for linear as well as for nonlinear problems. The philosophy is essentially probabilistic and allows the reader to understand the basic difficulties appearing in the resolution of inverse problems. The book attempts to explain how a method of acquisition of information can be applied to actual real-world problems, and many of the arguments are heuristic.

Compilation of Regulations Related to Mineral Resource Activities on the Outer Continental Shelf- 1981

Compilation of Regulations Related to Mineral Resource Activities on the Outer Continental Shelf-United States 1981

Introduction to Geophysical Fluid Dynamics-Benoit Cushman-Roisin 2011-08-26 This book provides an introductory-level exploration of geophysical fluid dynamics (GFD), the principles governing air and water flows on large terrestrial scales. Physical principles are illustrated with the aid of the simplest existing models, and the computer methods are shown in juxtaposition with the equations to which they apply. It explores contemporary topics of climate dynamics and equatorial dynamics, including the Greenhouse Effect, global warming, and the El Nino Southern Oscillation. Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volume Explores contemporary topics such as the Greenhouse Effect, global warming and the El Nino Southern Oscillation Biographical and historical notes at the ends of chapters trace the intellectual development of the field Recipient of the 2010 Wernaers Prize, awarded each year by the National Fund for Scientific Research of Belgium (FNR-FNRS).

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