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KEY=NEW - MATTEO MACIAS

Remote sensing: an operational technology for the mining and petroleum industries Springer Ebook: Environmental Science: A Global Concern

McGraw Hill Environmental Science: A Global Concern is a comprehensive presentation of environmental science for non-science majors which emphasizes critical thinking, environmental responsibility, and global awareness. This book is intended for use in a one or two-semester course in environmental science, human ecology, or environmental studies at the college or advanced placement high school level. As practicing scientists and educators, the Cunningham author team brings decades of experience in the classroom, in the practice of science, and in civic engagement. This experience helps give students a clear sense of what environmental science is and why it matters in this exciting, new 13th edition. *Environmental Science: A Global Concern* provides readers with an up-to-date, introductory global view of essential themes in environmental science. The authors balance evidence of serious environmental challenges with ideas about what we can do to overcome them. An entire chapter focuses on ecological restoration; one of the most important aspects of ecology today. Case studies in most chapters show examples of real progress, and "What Can You Do?" lists give students ideas for contributing to solutions **Case Studies in Sustainability Management The oikos collection Routledge** With the rapidly growing importance of sustainability and corporate responsibility in a globalised world, management schools are increasingly integrating long-term economic, environmental and social issues into their teaching and research. Climate change, poverty, labour standards and human rights are among the many topics that future decision-makers will need to face in their careers. Business education needs to reflect this new reality and provide a broadened understanding of value creation in order to create economic capital while developing social and preserving natural capital. Case studies can be important tools for

creating learning processes on different levels - students are forced to struggle with exactly the kinds of decisions and dilemmas managers confront every day. In this reflection of reality, the values and goals of the student are systematically challenged. This can be especially valuable in the context of sustainability management - organisations are now continually forced to value the different aspects of sustainability and their interrelations: How do social issues impact the economic bottom line? How can an environmentally sound strategy create a positive impact on employee motivation and thus have measurable impact on economic performance? What comes first and why? This third collection of oikos case studies is based on the winning cases from the 2010 to 2013 annual case competition. So what makes an excellent case in sustainability management? These cases have been highly praised because they provide excellent learning opportunities, tell engaging stories, deal with recent situations, include quotations from key actors, are thought-provoking and controversial, require decision-making and provide clear take-aways. These cases are clustered in three different sections: "Large Corporations and Corporate Sustainability Dilemmas" , "Managing Stakeholder Relations" and "Sustainability as a Source of Differentiation Strategies". Case Studies in Sustainability Management will be an essential purchase for educators and is likely to be a widely used as a course textbook at all levels of management education. Online Teaching Notes to accompany each chapter are available on request with the purchase of the book.

Building Resilience A Green Growth Framework for Mobilizing Mining Investment World Bank Publications A sustainable path to development has profound consequences for all economic activities and related policies. The mining industry, which provides input to almost every product and service in the world, is highly relevant to the goal of achieving sustainable development in mineral-rich countries and in the global economy. In addition, environmental sustainability is a critical concern for mining companies, whose growth is increasingly affected by climate change. Given the centrality of minerals and metals to our way of living, Building Resilience: A Green Growth Framework for Mobilizing Mining Investment investigates the extent to which the mining industry can contribute to green growth. Despite what ought to be a tight nexus of public and private interest in targeted green sector investment, this report finds that there is a misalignment between mining companies' investment in climate-sensitive production processes, and policy makers' efforts to develop a cohesive green economy framework for industry to navigate. The private and public sectors regard the climate agenda and the development of local economic opportunity as separate matters. Neither industry nor government have yet to effectively leverage their climate imperatives and mandates to seize green growth opportunities. To address this misalignment, this report proposes a framework to help mining companies and governments integrate climate change and local economic opportunity activities. Going further, the report offers examples of projects and policies that support green growth: particularly climate-related activities that create scalable economic value and invest in long-lasting green infrastructure.

Studies from the Institute for Medical Research Studies from the Institute for Medical Research, Federated Malay States Studies from the Institute for Medical Research, Federated Malay States ... Summit Showcase Displays and Ecosystem Case

Studies Presented at the Bureau of Land Management Summit, Incline Village, Nevada, on April, 1994 OECD Rural Policy Reviews OECD Mining Regions and Cities Case Study Outokumpu and North Karelia, Finland

Outokumpu and North Karelia, Finland OECD Publishing *This report identifies 12 recommendations that can assist the municipality of Outokumpu and the region of North Karelia in Finland to become key players in the national mining strategy and attain sustainable economic growth by: focusing on mobilising the potential of the local mining value chain, diversifying and developing new sources of economic growth, and improving governance co-ordination. It is part of a project that is building a platform for knowledge sharing and co-operation on increasing productivity and enhancing the well-being of cities and regions with a specialisation in the mining and extractive sector (metals, minerals, and energy resources).*

Catholic Peacebuilding and Mining Integral Peace, Development, and Ecology Routledge

This book explores the role of Catholic peacebuilding in addressing the global mining industry. Mining is intimately linked to issues of conflict, human rights, sustainable development, governance, and environmental justice. As an institution of significant scope and scale with a large network of actors at all levels and substantial theoretical and ethical resources, the Catholic Church is well positioned to acknowledge the essential role of mining, while challenging unethical and harmful practices, and promoting integral peace, development, and ecology. Drawing together theology, ethics, and praxis, the volume reflects the diversity of Catholic action on mining and the importance of an integrated approach. It includes contributions by an international and interdisciplinary range of scholars and practitioners. They examine Catholic action on mining in El Salvador, Peru, Colombia, the Democratic Republic of the Congo, and the Philippines. They also address general issues of corporate social responsibility, human rights, development, ecology, and peacebuilding. The book will be of interest to scholars of theology, social ethics, and Catholic studies as well as those specializing in development, ecology, human rights, and peace studies.

Field fortification, military mining, and siege operations Recent Advances in Geographic Information System for Earth Sciences MDPI

Geographic information systems (GISs) have played a vital role in Earth sciences by providing a powerful means of observing the world and various tools for solving complex problems. The scientific community has used GISs to reveal fascinating details about the Earth and other planets. This book on recent advances in GIS for Earth sciences includes 12 publications from esteemed research groups worldwide. The research and review papers in this book belong to the following broad categories: Earth science informatics (geoinformatics), mining, hydrology, natural hazards, and society.

Phytoremediation of Abandoned Mining and Oil Drilling Sites Elsevier

Phytoremediation of Abandoned Mining and Oil Drilling Sites presents case studies and the latest research on the most effective methods to address the large amounts of waste materials released due to mining and oil drilling. In particular, phytoremediation is described as a novel, eco-friendly, cost-effective method for extracting toxic compounds by plants for the restoration of contaminated sites. Plantings on these contaminated areas lead to the removal of toxic substances such as heavy metals and hydrocarbons, improvement in the physicochemical and biological properties of the soil, long-term forest ecosystem

rehabilitation, restoration of ecosystem productivity, stability and biological diversity, and reductions in CO₂. Utilizing worldwide examples, this book discusses the potential of phytoremediation as an ideal solution for sites contaminated by mining and oil drilling sites. Includes exploration of efficient plants for restoring contaminated former mining and oil drilling sites Addresses adverse impacts of toxicants released from mining activities on living organisms, including human health Presents characteristics of contaminated former mining and oil drilling sites

China's Virtual Monopoly of Rare Earth Elements Economic, Technological and Strategic Implications Routledge Rare Earth Elements are a group of 17 metals which have a central role in modern industry, increasingly used in the fields of green technologies, high technological consumer goods, industrial and medical appliances and modern weapons systems. Although deposits of Rare Earths are globally dispersed, over 90% of global demand has been provided by Chinese mines since the late 1990s, leading to a situation where China has a virtual monopoly. This book surveys the Rare Earths mining industry, discusses the extent to which Rare Earths really are scarce elsewhere in the world and assesses the economics of production, considering arguments for the rationing of supply, for higher pricing and for a total export embargo. This actually occurred in 2010, demonstrating the vulnerability of the rest of the world to China's control of these increasingly vital resources. **Geoscience for the Public Good and Global Development Toward a Sustainable Future Geological Society of America Advances in**

Environmental Technologies III Trans Tech Publications Ltd Collection of selected, peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection (ICEEP 2014), April 26-28, 2014, Xi'an, China. The 805 papers are grouped as follows: Chapter 1: Environmental Materials and Processes, Chapter 2: Environmental Chemistry and Technology, Chapter 3: Environmental Bioresearch, Chapter 4: Sound, Noise and Vibration Control, Chapter 5: Environmental Safety and Health, Chapter 6: Environmental Analysis, Modeling and Monitoring, Chapter 7: Environmental Planning and Assessment, Chapter 8: Disaster Prevention and Mitigation, Chapter 9: Environmental Restoration Project, Chapter 10: Pollution Control Project, Removal and Treatment Technologies, Chapter 11: Waste Disposal and Recycling, Chapter 12: Hydrology and Water Resources Research, Chapter 13: Water Supply and Drainage Engineering, Chapter 14: Forest Cultivation, Soil and Water Conservation and Desertification Control, Chapter 15: Geographic Information Science, Chapter 16: Cleaner Production Processes and Water Purification, Chapter 17: Land Resources, Environment and Urban Planning, Chapter 18: Architectural Environment, Environment and Eco-Planning **Rare Earths**

Industry Technological, Economic, and Environmental Implications Elsevier Rare Earths elements are composed of 15 chemical elements in the periodic table. Scandium and yttrium have similar properties, with mineral assemblages, and are therefore referred alike in the literature. Although abundant in the planet surface, the Rare Earths are not found in concentrated forms, thus making them economically valued as they are so challenging to obtain. *Rare Earths Industry: Technological, Economic and Environmental Implications* provides an interdisciplinary orientation to the topic of Rare Earths with a focus on technical, scientific, academic, economic, and environmental issues. Part I of book deals with

the Rare Earths Reserves and Mining, Part II focuses on Rare Earths Processes and High-Tech Product Development, and Part III deals with Rare Earths Recycling Opportunities and Challenges. The chapters provide updated information and priceless analysis of the theme, and they seek to present the latest techniques, approaches, processes and technologies that can reduce the costs of compliance with environmental concerns in a way it is possible to anticipate and mitigate emerging problems. Discusses the influence of policy on Rare Earth Elements to help raise interest in developing strategies for management resource development and exploitation Global contributions will address solutions in countries that are high RE producers, including China, Brazil, Australia, and South China End of chapter critical summaries outline the technological, economic and environmental implications of rare earths reserves, exploration and market Provides a concise, but meaningful, geopolitical analysis of the current worldwide scenario and importance of rare earths exploration for governments, corporate groups, and local stakeholders **Energy Resources for Human Settlement in the Solar System and Earth's Future in Space AAPG Memoir 101 AAPG** The book's purpose is to provide the quantitative foundation for beginning to think about developing energy and minerals outside of Earth's atmosphere that are necessary to support scientific missions, space and extra-terrestrial scientific stations and permanent colonies, and ultimately expand Earth's economy beyond the near-earth environment to include space resources. We cannot envision a situation where all resources required for future space activities are exported from Earth, therefore, this book clearly illustrates that an effective economy is possible beyond Earth's surface when we consider the resources available in near-Earth space. Our first audience is members of AAPG, American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) and other professionals engaged in energy and resource development. As energy professionals, we are concerned on a daily basis with providing the necessary energy and minerals required for our growing world population and the increasing standard of living that comes with ample energy availability. And more than anything else, AAPG members are explorers. We are the professionals who have pushed back the boundaries of our resource base, from capturing petroleum resources from surface seeps, to drilling onshore wells to extract oil and gas, and to venturing offshore into increasingly difficult and hostile environments to supply the cheap and abundant energy made available by our advances in technology. There are more similarities than differences between deepwater exploration and development, and space exploration. Beyond our own members, however, our audience is every rational human being who understands human health and well-being, quality of life, education and freedom are dependent on the energy and minerals that support our advanced civilization. Space is the next frontier, and as the world civilization expands beyond Earth's surface we hope this publication serves to illustrate there are abundant opportunities to support and maintain - and in fact, allow to prosper - civilization's expansion into space -- Publisher's website. **Environmental Science Cengage Learning** Inspiring people to care about the planet ... In the new edition of ENVIRONMENTAL SCIENCE, authors Tyler Miller and Scott Spoolman have partnered with the National Geographic Society to develop a text that will equip you with the inspiration and knowledge you need to make a difference solving today's environmental issues. Exclusive content highlights

important work of National Geographic Explorers and Grantees and features over 180 new photos, maps, and illustrations that bring course concepts to life. Using this empowering book, you will learn how nature works, how you interact with it, and how you can use various scientific principles based on how nature has sustained life on the earth for billions of years to live more sustainably. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. **Engineering Geology and Geological**

Engineering for Sustainable Use of the Earth's Resources, Urbanization and Infrastructure Protection from Geohazards Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on

Sustainable Civil Infrastructures Springer The ongoing population growth is resulting in rapid urbanization, new infrastructure development and increasing demand for the Earth's natural resources (e.g., water, oil/gas, minerals). This, together with the current climate change and increasing impact of natural hazards, imply that the engineering geology profession is called upon to respond to new challenges. It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions. The idea beyond this volume is to highlight the role of engineering geology and geological engineering in fostering sustainable use of the Earth's resources, smart urbanization and infrastructure protection from geohazards. We selected 19 contributions from across the globe (16 countries, five continents), which cover a wide spectrum of applied interdisciplinary and multidisciplinary research, from geology to engineering. By illustrating a series of practical case studies, the volume offers a rather unique opportunity to share the experiences of engineering geologists and geological engineers who tackle complex problems working in different environmental and social settings. The specific topics addressed by the authors of chapters included in the volume are the following: pre-design site investigations; physical and mechanical properties of engineering soils; novel, affordable sensing technologies for long-term geotechnical monitoring of engineering structures; slope stability assessments and monitoring in active open-cast mines; control of environmental impacts and hazards posed by abandoned coal mines; assessment of and protection from geohazards (landslides, ground fracturing, coastal erosion); applications of geophysical surveying to investigate active faults and ground instability; numerical modeling of seabed deformations related to active faulting; deep geological repositories and waste disposal; aquifer assessment based on the integrated hydrogeological and geophysical investigation; use of remote sensing and GIS tools for the detection of environmental hazards and mapping of surface geology. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017. **The Will to Drill - Mining in Arctic Communities Springer** This book focuses on the connections between mining activities, knowledge politics and the valuation of landscape in selected case sites in Russia, Greenland and Norway, whilst considering the interrelated aspects of industrialized, natural resource based development and environmental concerns in the Arctic. The case studies in these three different countries reveals that there are indeed multiple 'Arctics' – not least concerning the way extractive industries are received and perceived – and that national legislation, public awareness and economic alternatives are amongst the

variables that influence to what extent environmental ramifications of mining are accepted. Through analysis of political discourses, legal documents, grey literature, discussions in local and national media and empirical material from in-site fieldwork, the authors seek to understand how debates about mining reveal more general conflicts and concerns about how to define sustainability. The book contributes to the overall debates on both extractive industries and development trends in the Arctic, and will as such be of interest for both established scholars and students – as well as policy makers and the public. The compilation of cases and variety of analytical perspectives will further stimulate the ongoing debates concerning the impacts of extractive industries on communities – both in the Arctic and beyond.

Optimal Database Marketing Strategy, Development, and Data Mining

SAGE Publications Check out the supplemental website!

www.DrakeDirect.com/OptimalDM/ "Destined to be the definitive guide to database marketing applications, analytical strategies and test design." - Brian Kurtz, Executive Vice President, Boardroom Inc., 2000 DMA List Leader of the Year and DMA Circulation Hall of Fame Inductee "This book is well written with interesting examples and case studies that both illustrate complex techniques and tie the chapters together. The level of detail and treatment of statistical tools and methods provides both understanding and enough detail to begin to use them immediately to target marketing efforts efficiently and effectively. It is perfect for a course in database marketing or as a handy reference for those in the industry. " - C. Samuel Craig, New York University, Stern School of Business "This book should be studied by all who aspire to have a career in direct marketing. It provides a thorough overview of all essential aspects of using customer databases to improve direct marketing results. The material is presented in a style that renders even the technical subjects understandable to the novice direct marketer" Kari Regan, Vice President, Database Marketing Services, The Reader's Digest Association "Finally, practical information on database marketing that tackles this complex subject but makes it clear enough for the novice to understand. This book serves as more than a primer for any senior manager who needs to know the whole story. As one who has spent over 20 years of his career involved in publishing and database marketing, I have a real appreciation for how difficult it is to explain the finer points of this discipline, while keeping it understandable. This book does that admirably. Well done!" - Patrick E. Kenny, Executive Vice President, Qiosk.com "This book is especially effective in describing the breadth and impact of the database marketing field. I highly recommend this book to anyone who has anything to do with database marketing! -- works in or with this dynamic area." - Naomi Bernstein, Vice President, BMG Direct "Ron Drozdenko and Perry Drake have written a guide to database marketing that is thorough and that covers the subject in considerable depth. It presents both the concepts underlying database marketing efforts and the all-important quantitative reasoning behind it. The material is accessible to students and practitioners alike and will be an important contribution to improved understanding of this important marketing discipline. " Mary Lou Roberts, Boston University and author of *Direct Marketing Management* "I think it is a terrific database marketing book, it's got it all in clear and logical steps. The benefit to the marketing student and professional is that complex database concepts are carefully developed and thoroughly explained. This

book is a must for all marketing managers in understanding database issues to successfully manage and structure marketing programs and achieve maximum results. " - Dante Cirille, DMEF Board Member and Retired President, Grolier Direct Marketing "An excellent book on the principles of Direct Marketing and utilization of the customer database to maximize profits. It is one of the best direct marketing books I have seen in years in that it is broad with specific examples. I am going to require new hires to read this (book) to get a better understanding of the techniques used in Database Marketing." - Peter Mueller, Assistant Vice President of Analysis, Scholastic, Grolier Division "This is an amazingly useful book for direct marketers on how to organize and analyze database information. It's full of practical examples that make the technical material easy to understand and apply by yourself. I strongly recommend this book to direct and interactive marketers who want to be able to perform professional database analyses themselves, or be better equipped to review the work of analysts. " - Pierre A. Passavant, Professor of Direct Marketing, Mercy College and Past Director, Center for Direct Marketing, New York University "The most useful database marketing reference guide published today. The authors do an excellent job of laying out all the steps required to plan and implement an effective database marketing strategy in a clear and concise manner. A must have for academics, marketing managers and business executives." - Dave Heneberry, Director, Direct Marketing Certificate programs, Western Connecticut State University and Past Chair, Direct Marketing Association "This book is essential for all direct marketers. It serves as a great introduction to the technical and statistical side of database marketing. It provides the reader with enough information on database marketing and statistics to effectively apply the techniques discussed or manage others in the environment " - Richard Hochhauser, President, Harte-Hanks Direct Marketing Ronald G. Drozdenko, Ph.D., is Professor and Chair of the Marketing Department, Ansell School of Business, Western Connecticut State University. He is also the founding Director of the Center for Business Research at the Ansell School. He has more than 25 years of teaching experience. The courses he teaches include Strategic Marketing Databases, Interactive/Direct Marketing Management, Product Management, Marketing Research, and Consumer Behavior. He is collaborating with the Direct Marketing Education foundation to develop a model curriculum for universities pursuing the area of interactive or direct marketing. Working with an advisory board of industry experts, he co-developed the Marketing Database course in model curriculum. Dr. Drozdenko has co-directed more than 100 proprietary research projects since 1978 for the marketing and research and development of several corporations, including major multinationals. These projects were in the areas of strategic planning, marketing research, product development, direct marketing, and marketing database analysis. He also has published several articles and book chapters. He holds a Ph.D. in Experimental Psychology from the University of Missouri and is a member of the American Marketing Association, the Society for Consumer Psychology, and the Academy of Marketing Sciences. He is also the co-inventor on three U.S. patents. Perry D. Drake has been involved in the direct marketing industry for nearly 15 years. He is currently the Vice President of Drake Direct, a database marketing consulting firm specializing in response modeling, customer file segmentation, lifetime value analysis, customer profiling, database

consulting, and market research. Prior to this, Perry worked for approximately 11 years in a variety of quantitative roles at The Reader's Digest Association, most recently as the Director of Marketing Services. In addition to consulting, Perry has taught at New York University in the Direct Marketing Master's Degree program since Fall, 1998, currently teaching "Statistics for Direct Marketers" and "Database Modeling." Perry was the recipient of the NYU Center for Direct and Interactive Marketing's "1998-1999" Outstanding Master's Faculty Award. Perry also lectures on testing and marketing financials for Western Connecticut State University's Interactive Direct Marketing Certificate Program. Along with Ron, he is collaborating with the Direct Marketing Education Foundation to develop a model curriculum for universities pursuing the area of interactive or direct marketing. Perry earned a Masters of Science in Applied Statistics from the University of Iowa and a Bachelor of Science in Economics from the University of Missouri. The book evolved from an outlined developed by an advisory board of industry experts that was established by the Direct Marketing Educational Foundation. Contemporary direct marketing and e-commerce could not exist without marketing databases. Databases allow marketers to reach customers and cultivate relationships more effectively and efficiently. While databases provide a means to establish and enhance relationships, they can also be used incorrectly, inefficiently, and unethically. This book looks beyond the temptation of the quick sale to consider the long-term impact of database marketing techniques on the organization, customers, prospective customers, and society in general. Ron Drozdenko and Perry Drake help the reader gain a thorough understanding of how to properly establish and use databases in order to build strong relationships with customers. There is not another book on the market today that reveals the level of detail regarding database marketing applications - the how's, why's and when's. Features/Benefits: Draws on numerous examples from real businesses Includes applications to all direct marketing media including the Internet Describes in step-by-step detail how databases are developed, maintained, and mined Considers both business and social issues of marketing databases Contains a sample database allowing the reader to apply the mining techniques Offers access to comprehensive package of academic support materials **Selected Water**

Resources Abstracts Introduction to Mineralogy and Petrology Elsevier

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

Computers in Earth and Environmental Sciences Artificial Intelligence and Advanced Technologies in Hazards and Risk Management Elsevier

Computers in Earth and Environmental Sciences: Artificial Intelligence and Advanced Technologies in Hazards and Risk Management addresses the need for a comprehensive book that focuses on multi-hazard assessments, natural and manmade hazards, and risk management using new methods and technologies that employ GIS, artificial intelligence, spatial modeling, machine learning tools and meta-heuristic techniques. The book is clearly organized into four parts that cover natural hazards, environmental hazards, advanced tools and technologies in risk management, and future challenges in computer applications to hazards and risk management. Researchers and professionals in Earth and Environmental Science who require the latest technologies and advances in hazards, remote sensing, geosciences, spatial modeling and machine learning will find this book to be an invaluable source of information on the latest tools and technologies available.

Covers advanced tools and technologies in risk management of hazards in both the Earth and Environmental Sciences Details the benefits and applications of various technologies to assist researchers in choosing the most appropriate techniques for purpose Expansively covers specific future challenges in the use of computers in Earth and Environmental Science Includes case studies that detail the applications of the discussed technologies down to individual hazards

Sustainable Development in Changing Complex Earth Systems Springer Nature

This book applies system theory to analyze the operation and structure of the complex earth surface system, including the interactions between society and nature that cause environmental degradation and threats to human populations. The possible ways to harmonize the operation of a global society as a complex system using the United Nation sustainable development goals are investigated, as well as the major efforts currently implemented to achieve this objective and why many are unsuccessful. Readers will learn this material through case studies that assess the essential conditions required to occupy a planet sustainably, and examine the complex interactions between society and nature in the atmosphere, hydrosphere, biosphere, and outer layers of the lithosphere. The book is written for undergraduate students in geography, earth sciences, environmental sciences, and ecology, and will also appeal to environmental agency employees, nature protection representatives, teachers, and researchers.

Sensitivity Analysis in Earth Observation Modelling Elsevier *Sensitivity Analysis in Earth Observation Modeling* highlights the state-of-

the-art in ongoing research investigations and new applications of sensitivity analysis in earth observation modeling. In this framework, original works concerned with the development or exploitation of diverse methods applied to different types of earth observation data or earth observation-based modeling approaches are included. An overview of sensitivity analysis methods and principles is provided first, followed by examples of applications and case studies of different sensitivity/uncertainty analysis implementation methods, covering the full spectrum of sensitivity analysis techniques, including operational products. Finally, the book outlines challenges and future prospects for implementation in earth observation modeling. Information provided in this book is of practical value to readers looking to understand the principles of sensitivity analysis in earth observation modeling, the level of scientific maturity in the field, and where the main limitations or challenges are in terms of improving our ability to implement such approaches in a wide range of applications. Readers will also be informed on the implementation of sensitivity/uncertainty analysis on operational products available at present, on global and continental scales. All of this information is vital in the selection process of the most appropriate sensitivity analysis method to implement. Outlines challenges and future prospects of sensitivity analysis implementation in earth observation modeling Provides readers with a roadmap for directing future efforts Includes case studies with applications from different regions around the globe, helping readers to explore strengths and weaknesses of the different methods in earth observation modeling Presents a step-by-step guide, providing the principles of each method followed by the application of variants, making the reference easy to use and follow

Proceedings of the 38th International Conference on Ground Control in Mining Society for Mining, Metallurgy & Exploration Read what industry thought leaders are saying about research and advancements in ground control science. The International Conference on Ground Control in Mining has a rich history of advancing ground control techniques and knowledge. It provides a unique platform for researchers, regulators, consultants, manufacturers, and mine operators to present and exchange challenging industry topics as well as to expedite solutions to ground control problems that require immediate attention. This proceedings from the 38th International Conference is no exception. It includes 43 peer-reviewed research papers from industry experts covering topics of importance for today and the future.

Water Planet: The Culture, Politics, Economics, and Sustainability of Water on Earth The Culture, Politics, Economics, and Sustainability of Water on Earth **ABC-CLIO** Through case studies, opposing viewpoints, and primary documents, this reference work examines the environmental and sustainability issues regarding water as well as how water is an intrinsic part of human culture. • Presents a variety of resources and multidisciplinary perspectives on water in a single book • Offers opposing viewpoints on current world water issues that enable readers to consider these problems from political, cultural, economic, and scientific vantage points • Documents how some practical necessities regarding our global water problems are in conflict with established cultural tradition and values

Life Cycle Assessment for Sustainable Mining Elsevier Life Cycle Assessment for Sustainable Mining addresses sustainable mining issues based on life cycle assessment, providing a thorough guide to implementing LCAs using sustainability

metrics. The book details current research on LCA methodologies related to mining, their outcomes, and how to relate sustainable mining concepts in a circular economy. It is an in-depth, foundational reference for developing ideas for technological advancement through designing reduced-emission mining equipment or processes. It includes literature reviews and theoretical concepts of life cycle assessments applied in mining industries, sustainability metrics and problems related to mining and mineral processing industries identified by the life cycle assessment results. This book will aid researchers, students and academics in the field of environmental science, mining engineering and sustainability to see LCA technology outcomes which would be useful for the future development of environmentally-friendly mining processes. Details state-of-the-art life cycle assessment theory and practices applied in the mining and mineral processing industries Includes in-depth, practical case studies outlined with life cycle assessment results to show future pathways for sustainability enhancement Provides fundamental knowledge on how to measure sustainability metrics using life cycle assessment in mining industries

Earth Resources a continuing bibliography with indexes Land Subsidence Case Studies and Current Research Proceedings of the Dr. Joseph F. Poland Symposium on Land Subsidence Star Publishing Company (Belmont, CA) LAND SUBSIDENCE: CASE STUDIES AND CURRENT RESEARCH edited by James W. Borchers. Land Subsidence is a worldwide problem. Under the auspices of the Association of Engineering Geologists, carefully selected experts contributed papers to this comprehensive compendium The contributors, from the United State & 10 other countries include practitioners, researchers, planners & attorneys -- experts that you can depend upon. Current & historically significant research: Innovative theory & monitoring equipment. Case histories describing site exploration & evaluation. Predictive modeling. Damage to infrastructure. Engineering of remedial construction. Topics include: Migration or removal of subsurface fluid such as brine, salt water, hydrocarbons. Hydrocompaction of moisture deficient sediments: debris flow deposits, artificial fill. Oxidation of peat deposits. Collapse of underground ad solution mine voids. Tunneling. Karst terrain. Going beyond engineering geology & hydrology, this timely resource includes insight into political & legal issues. Offers an understanding of the public policy decision making processes related to land subsidence. Property rights & land use. Regulatory issues. Topics critical to consulting engineers, planners, developers, attorneys & geologists. Hardcover. 8 1/2 by 11 inches. Extensive illustrations! 576 pages. ISBN: 0-89863 197-1 Star Publishing Company P.O. Box 68, Belmont, CA 94002 Phone (650) 591-3505; fax (650) 591-3898; email mail@starpublishing.com

Petrogenesis and Exploration of the Earth's Interior Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018 Springer This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of Mineralogy, Geochemistry, Petrology and Volcanology. The Earth's interior is a source of heat, which makes our planet unique. This source regulates the formation and evolution of rocks at larger scales, and of minerals and sediments toward smaller scales. In such context, the exploration of georesources

(products) has to be related to petrogenesis (processes). This volume offers an overview of the state-of-the-art petrogenesis and exploration in, but not limited to, the Middle East and Mediterranean regions. It gives new insights into processes and products related to the Earth's interior, and associated georesources by international researchers. Main topics include: 1. Petrogenetic processes: geochemistry, geochronology and geophysical approaches 2. Surficial processes: sedimentation and facies analysis 3. Applied mineralogy and tectonics 4. Geological research applied to mineral deposits

Agromining: Farming for Metals Extracting Unconventional Resources Using Plants Springer Nature This second and expanded edition of the first book on agromining (phytomining) presents a comprehensive overview of the metal farming & recovery of the agromining production chain. Agromining is an emerging technology that aims to transform the extraction of sources of target elements not accessible by traditional mining and processing techniques. Agromining, which is based on sustainable development, uses hyperaccumulator plants as 'metal crops' farmed on sub-economic soils or minerals wastes to obtain valuable target elements. This volume is edited and authored by the pioneers in the rapidly expanding field of agromining and presents the latest insights and developments in the field. This book provides in-depth information on the global distribution and ecology of hyperaccumulator plants, their biogeochemical pathways, the influence of rhizosphere microbes, the physiology and molecular biology of hyperaccumulation, as well as aspects of propagation and conservation of these unusual plants. It describes the agronomy of metal crops and opportunities for incorporating agromining into rehabilitation and mine closure, including test cases for agromining of nickel, cobalt, manganese, arsenic, selenium, cadmium, zinc, thallium, rare earth elements and platinum group elements. Since the first edition was published, there have been successful nickel agromining field trials in the tropics (in Malaysia and Guatemala), and these are presented in a dedicated case study chapter. Other new chapters focus on the processing of bio-ore for elements other than nickel, such as rare earth elements and cadmium, and on agromining from industrial wastes such as tailings, and industrial by-products and sites. Furthermore, the book features two new chapters that provide a comprehensive assessment of accumulation of a very wide range of elements from the Periodic Table in various plant species around the globe, and a chapter on practical methods for discovery of hyperaccumulator plant species in the field and in the herbarium. This book is of interest to environmental professionals in the minerals industry, government regulators, and academics.

Magnitude of Deviatoric Stresses in the Earth's Crust and Upper Mantle Proceedings of Conference IX : Convened Under Auspices of National Earthquake Hazards Reduction Program, 29 July 1979 - 2 August 1979 Sand Mining Environmental Impacts and Selected Case Studies Springer This book addresses most of the environmental impacts of sand mining from small rivers. The problems and solutions addressed in this book are applicable to all rivers that drain through densely populated tropical coasts undergoing rapid economic growth. Many rivers in the world are drastically being altered to levels often beyond their natural resilience capability. Among the different types of human interventions, mining of sand and gravel is the most disastrous one, as the activity threatens the very existence of

river ecosystem. A better understanding of sand budget is necessary if the problems of river and coastal environments are to be solved. **Mining Africa. Law, Environment, Society and Politics in Historical and Multidisciplinary Perspectives Law, Environment, Society and Politics in Historical and Multidisciplinary Perspectives African Books Collective** This book is a pacesetter in matters of mining and the environment in Africa from multidisciplinary and spatio-temporal perspectives. The book approaches mining from the perspectives of law, politics, archaeology, anthropology, African studies, geography, human ecology, sociology, history, economics and development. It interrogates mining and environment from the perspectives of customary law as well as from the perspectives of Euro-modern laws. In this sense, the book straddles precolonial, colonial and postcolonial mining and environmental perspectives. In all this, it maintains a Pan-Africanist perspective that also speaks to contemporary debates on African Renaissance and to the unity of Africa. From scrutinising the lived realities of African miners who are often insensitively and unjustly addressed as “illegal” miners, the book also interrogates transnational mining corporations; matters of corporate social responsibility as well as matters of tax evasions by transnational corporations whose commitment to accountability to African governments is questioned. With both theoretical chapters and chapter based on empirical studies on mining and the environment across the African continent, the book provides a much needed holistic, one stop shop for scholars, activists, researchers and policy makers who need a comprehensive treatise on African mining and the environment. The book comes at the right time when matters of African mining and environment are increasingly coming to the fore in the light of discourses about the new 21st century scramble for African resources, in which big transnational corporations and nations are jostling to suck Africa dry in their race to control planetary resources. It is a book that speaks to contemporary broader issues of (de-)coloniality and transformation of African minds and African environmental resources. **Geostatistics with Applications in Earth Sciences Springer Science & Business Media** Geostatistics is expanding very fast: concept- and technique-wise. Keeping in view the importance of the subject, it was thought appropriate to bring out the second edition of this book. In this process, Chapter I has been expanded In Chapter 2, incorporating more details on sampling and sampling designs. a section on simulation has been introduced with emphasis on Monte-Carlo simulation with worked out examples. In Chapter 5, a procedure to compute variogram in the case of irregular grid has been outlined. Minor modifications have been made in all other chapters. A new chapter on Introduction to Advanced Geostatistics has been introduced with discussions on universal kriging, disjunctive kriging, conditional simulation and median polish kriging. Review Questions are given at the end of each chapter to facilitate a better understanding of the subject by the student/practitioner. The software codes are put in a CD for convenience of the students/practitioner of geostatistics. A few additions have been made in the bibliography making it more exhaustive. This contains references to the concepts and methods presented, in-depth treatment of related topics and possible extensions. My grateful thanks are due to Dr. B.S. Saini, Principal, Guru Nanak Engg. College, Hyderabad for very helpful support. I hope that this edition will be a welcome one. **Scientific and Technical Aerospace Reports Introduction to**

Data Mining and Its Applications Springer Science & Business Media *This book explores the concepts of data mining and data warehousing, a promising and flourishing frontier in data base systems and new data base applications and is also designed to give a broad, yet in-depth overview of the field of data mining. Data mining is a multidisciplinary field, drawing work from areas including database technology, AI, machine learning, NN, statistics, pattern recognition, knowledge based systems, knowledge acquisition, information retrieval, high performance computing and data visualization. This book is intended for a wide audience of readers who are not necessarily experts in data warehousing and data mining, but are interested in receiving a general introduction to these areas and their many practical applications. Since data mining technology has become a hot topic not only among academic students but also for decision makers, it provides valuable hidden business and scientific intelligence from a large amount of historical data. It is also written for technical managers and executives as well as for technologists interested in learning about data mining.*