
Mining and Its Impact on the Environment

Environmental Impacts of Mining: a comprehensive reference addressing some of the most significant environmental problems associated with mining. These issues include destruction of landscapes, destruction of agricultural and forest lands, sedimentation and erosion, soil contamination, surface and groundwater pollution, air pollution, and waste management. This book presents an agenda for minimising environmental damage and offers solutions for the restoration and remediation of degraded areas. This book is a "must have" for environmental consultants, planners, workers in the mining industry, geologists, hydrologists, hazardous waste professionals, and instructors in the environmental sciences.

Opecan Coal Mining and Its Environmental Impact

This book contains a wealth of information and analysis relating to mineral royalties. Primary information includes royalty legislation from over forty nations. Analysis is comprehensive and addresses issues of importance to diverse stakeholders including government policymakers, tax administrators, society, local communities and mining companies. Extensive footnotes and citations provide a valuable resource for researchers.

Ancient Mining activities and its impact on environment and human societies; 2nd Mining in European History Conference; special conference of the FZ HIMAL, Innsbruck, November 7th - November 10th 2012; conference guide:

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Early Mining and Metalworking: its impact on the Environment

Since coal is seen by many as the logical solution to the nation's energy crisis, strip mining operations will continue. But they will continue amid intense public debate, much of it centering on the standards that will govern reclamation. Two Cases from Latin America: a mining sub-sidence, restoration and control, the impacts of artisanal gold mining on local livelihoods and the environment in the forested areas of Cameroon: safety and its impact on the environment, termination of underground coal mining and its impact on the environment, environmental issues of deep-sea mining, heavy metals assessment, restoration and reclamation of mining influenced soils: the role of law in facilitating mining and minimizing its impact on the living environment, and natural hazard vulnerability in the Philippines.

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Mining and the Environment

Mining and its impact on the environment is a complex issue. The extractive industry has played a critical role in economic development and has been a source of income for many countries. However, this activity has also had significant social and environmental impacts. The mining sector has been an integral part of economic development in many African countries. Although minerals have been exploited for decades in these countries, the benefits have not always been as visible. This has necessitated reforms including nationalisation of mining activities in the distant past; and currently legal and regulatory reforms. This book gives an insight of these reforms and with reference to the fieldwork research undertaken by the author in some African countries, the book highlights the social and environmental impacts of mining activities in Africa. The central question of the book is, why the mining laws have worked in some countries but not others and what can be done to ensure that these laws are effective? Consequently, the book analyses the legal reforms made in the sector and outlines how these reforms may be implemented in other countries to ensure that mining activities are carried out in a sustainable manner.

Assessment, Restoration and Reclamation of Mining Influenced Soils

This book reviews current topical issues in mining and sustainable development. It addresses the changing role of minerals in society, the social acceptance of mining, due diligence in the mining industry, critical and contemporary debates such as mining and indigenous peoples and transit worker accommodation, corporate sustainability matters such as sustainability reporting and taxonomy, and sustainability solutions through an emphasis on renewable energy and shared-use infrastructure. Written by experts from Australia, Europe and North America, the book will be of interest to practitioners, government and civil society as well as scholars and students with interests in mining and sustainable development.

Environmental Impacts of Mining Activities

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problem: the wealth, influence and technical knowledge of mining interests can and must be part of the solution. All of the contributions to this volume either consider the deficiencies of existing governance structures and the need for better ones, or explore the use of new techniques to identify and evaluate social and environmental impacts. The chapters in this book were originally published in the journal Water International.

Environmental Impact of Mining and Mineral Processing

New knowledge and changing circumstances in the law of the sea focus on the challenges posed to the existing legal framework, in particular the United Nations Convention on the Law of the Sea, and the various ways in which States are addressing these challenges.

Mining Capitalism

Environmental Impact of Mining and its Impact on the Environment

Environmental Impact of Mining and Mineral Processing: Management, Monitoring, and Control Strategies covers all the aspects related to mining and the environment, including environmental assessment at the early planning stages, environmental management during mine operation, and the identification of major impacts. Technologies for the treatment of mining, mineral processing, and metallurgical wastes are also covered, along with environmental management of mining wastes, including disposal options and the treatment of mining effluents. Presents a systematic approach for environmental assessment of mining and mineral processing projects. Provides expert advice for the implementation of environmental management systems that are unique to the mining industry. Effectively addresses a number of environmental challenges, including air quality, water quality, acid mine drainage, and land and economic impacts. Explains the latest in environmental monitoring and control systems to limit the environmental impact of mining and processing operations.

Mining and Sustainable Development

This volume investigates how mining affects societies and communities in Mongolia and Kyrgyzstan. As ex-Soviet states, Mongolia and Kyrgyzstan share history, culture and transitions to democracy. Most importantly, both are mineral-rich countries on China's frontier and epicentres of resource extraction. This volume examines challenges communities in these countries encounter on the long journey through resource exploration, extraction and mine closure. The book is organised into three related sections which travel from mining licenses, instigation to early anticipation of benefit through the realisation of social and environmental impacts at finite issues such as jobs, monitoring, dispute resolution and reclamation. It is originally, each chapter will include a final section entitled 'Notes from the Field' that presents the voice of in-country researchers and stakeholders. These sections will provide local contextual knowledge on the chapter's theme by practitioners from Mongolia and Central Asia. The volume thereby offers a distinctively grounded perspective on the tensions and benefits of mining in this dynamic region. Using Mongolia and Kyrgyzstan as case studies, the volume reflects on the evolving challenges communities and societies encounter with resource extraction worldwide. The book will be of great interest to students and scholars of mining and natural resource extraction, corporate social responsibility and sustainable development.

Environmental Impacts of Mining

The Socio-Economic Impacts of Artisanal and Small-Scale Mining in Developing Countries

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.

Mining and Its Environmental Impact

Winner of the 2007 E.B. Burwell, Jr. Award of the Geological Society of America. Mining activity has left a legacy of hazards to the environment, such as waste, unstable ground and contamination, which can be problematic when redeveloping land. This book highlights the effects of past mining and provides information on the types of problems it may cause in both urban and rural areas. By way of example, the book also demonstrates how such problems may be anticipated, investigated, predicted, prevented and controlled. Furthermore, it shows how sites already affected by mining problems and hazards can be remediated and rehabilitated. Covering subsidence, surface mining, disposal of waste, problems resulting from mine closure and mineral processing, Mining and Its Impact on the Environment is an excellent reference for practising mining and geotechnical engineers, as well as students in this field.

Environmental Impacts of Coal Mining & Utilization

Mining Royalties

A coal is considered as a substitute for other fuels, more serious attention is being given to the environmental impacts of the whole coal fuel cycle: mining, transport, storage, combustion and conversion. This volume presents an up-to-date account of these environmental impacts and the recent developments to combat and control them. A feature of the book is the way in which it discusses not only the experience and developments in North America and Western Europe but also presents much information made available for this study on the developments in the socialist countries of Eastern Europe.

Environmental Impacts of Mining Monitoring, Restoration, and Control

The impacts of artisanal gold mining on local livelihoods and the environmental in the forested areas of Cameroon
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Safety and Its Impact on Technical Design and Systems in Coal Mining

The purpose of this book is to examine both the positive and negative socioeconomic impacts of artisanal and small-scale mining in developing countries. In recent years, a number of governments have attempted to formalize this rudimentary sector of industry, recognizing its socioeconomic importance. However, the industry continues to be plagued by a wide range of problems, including environmental and health-related impacts, rampant illegal activity and illicit mineral marketing, and disease. The book provides an up-to-date overview of social and economic conditions in the artisanal and small-scale mining industry, integrating both theoretical and case study assessments with case study research recently undertaken in the field. It features the following five sections: Policy and Regulatory Issues in the Small-Scale Mining Industry; Artisanal and Small-Scale Mining; Labour and the Community; African Case Studies of Artisanal and Small-Scale Mining; Asian Case Studies of Artisanal and Small-Scale Mining. Targeted toward serving a wide-ranging audience, including academics, consultants, and government researchers, The Socioeconomic Impacts of Artisanal and Small-Scale Mining in Developing Countries is an invaluable tool for policy-makers at all levels.

Environmental Policy in Mining

Mining and its Impact on the Environment

This study assesses the impact of artisanal gold mining in the Ngoya-Mintom Forest Massif (NMFM) on local livelihoods and the environment. The methodology for the research consisted in a literature review, visits to eight mining camps in the periphery of Mintom, interviews with 95 miners, focus group discussions with actors involved in activities related to gold mining, and stakeholder consultations. The results show that miners earn a minimum of XAF 80,000 (US$ 160) per month, which is about three times the average wage in Cameroon (XAF 28,216 or US$ 50) and as much as XAF 800,000 (US$ 1600) a month. Mining leads to the creation of many associated activities such as portering, catering and the intensification of hunting, collection of NTFPs, and fishing, among others. The most negative social impact of mining is associated with activities such as prostitution, which leads to the quick spread of sexually transmitted diseases (STDs) including HIV/AIDS. Mining and its associated activities also have negative impacts on the environment such as destruction of fragile forest ecosystems, especially swamps, diversion, sedimentation and pollution of small water ways, and soil destruction, although at a relatively small scale.

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Heavy Metals

Uranium mining in the Commonwealth of Virginia has been prohibited since 1982 by a state moratorium, although approval for restricted uranium exploration in the state was granted in 2007. Uranium mining in Virginia examines the scientific, technical, environmental, human health and safety, and regulatory aspects of uranium mining, milling, and processing as they relate to the Commonwealth of Virginia for the purpose of assisting the Commonwealth to determine whether uranium mining, milling, and processing can be undertaken in a manner that safeguards the environment, natural and historic resources, agricultural lands, and the health and well-being of its citizens. According to this report, if Virginia lifts its moratorium, there are “steep hurdles to be surmounted” before mining and processing could take place within a regulatory setting that appropriately protects workers, the public, and the environment, especially given that the state has no experience regulating mining and processing of the radioactive element. The authoring committee was not asked to recommend whether uranium mining should be permitted, or to consider the potential benefits to the state were uranium mining to be pursued. It also was not asked to compare the relative risks of uranium mining to the mining of other fuels such as coal. This book will be of interest to decision makers at the state and local level, the energy industry, and concerned citizens.

Assessment, Restoration and Reclamation of Mining Influenced Soils

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 LCAs in-depth mining concepts in a circular economy. It current research on LCA methodologies related to mining, their outcomes, and how to relate LCAs in-depth mining concepts in a circular economy. It current research on LCA methodologies related to mining, their outcomes, and how to relate LCAs in-depth mining concepts in a circular economy. It current research on LCA methodologies related to mining, their outcomes, and how to relate LCAs in-depth mining concepts in a circular economy.
Mining and Natural Hazard Vulnerability in the Philippines

Corporations are among the most powerful institutions of our time, but they are also responsible for a wide range of harmful social and environmental impacts. Consequently, political movements and nongovernmental organizations increasingly contest the risks that corporations pose to people and nature. Mining: Capitalism examines the strategies through which corporations manage their relationships with these critics and adversaries. By focusing on the conflict over the Ok Tedi copper and gold mine in Papua New Guinea, Stuart Kirsch tells the story of a slow-moving environmental disaster and the international network of indigenous peoples, advocacy groups, and lawyers that sought to protect local rivers and rain forests. Along the way, he analyzes how corporations promote their interests by manipulating science and invoking the discourses of sustainability and social responsibility. Based on two decades of anthropological research, this book is comparative in scope, showing readers how similar dynamics operate in other industries around the world.

The Water Legacies of Conventional Mining

Research Paper (undergraduate) from the year 2015 in the subject Geography / Earth Science - Miscellaneous, grade: 1.3, Humboldt-University of Berlin (Life Sciences), course: Biodiversity and Conservation Management, language: English, abstract: Latin America is rich in vulnerable biodiversity of flora and fauna, outstanding landscapes and ecosystems and natural resources. Protected areas (PAs) are a tool for the conservation of land cover and ecosystem services. But the world demand for natural resources is rising and with it resource extraction and intensive land use. Metal mining activities are one of the biggest threats towards PAs and these activities are steadily increasing. Deep environmental and social conflicts are associated with mining activities worldwide and especially in Latin America. The research question of this paper is: What are potential social and environmental impacts of mining activities on PAs and how can they be mitigated? The aim of the paper is to figure out important impacts of mining activities on PAs and to highlight possible solutions for mitigation.

Mining and the Law in Africa

For most countries in the Eastern Europe, Caucasus and Central Asia (EECCA) region, mining is an important economic sector that contributes to employment and public revenue. Despite mining's potential to cause long term negative environmental impacts, governments in the region have a vital role to play in supporting better environmental performance in the sector and ensuring the industry can be a progressive part of a greener economy. This report examines the environmental impacts of mining in the EECCA and provides policy makers with guidance to reconcile environmental and competitiveness objectives in the mining sector.

The Impact of Mining Lifecycles in Mongolia and Kyrgyzstan

Ecological Management of Mining: Achieving Environmental Compliance is a study and comparison - global in scope - of current practices used by mining firms striving for ecological management. The author takes an integrated and interdisciplinary approach in addressing, analyzing and working towards solutions regarding the complex challenges posed by managing the environmental impacts of mining. The issues addressed range from the ecotoxicological effects of metal residues to the land use effects of mining and from socioeconomic impacts to environmental regulation. The goal of this book is to assist mining companies throughout the world to achieve environmental compliance and improve competitiveness in the context of growing environmental regulation and technological innovation. It is an essential book for the wide variety of professionals working on issues in mining. Like the book and the research itself, the audience is integrated and interdisciplinary including engineers, planners, ecologists, policy makers and economists. Features

Life Cycle Assessment for Sustainable Mining

Since the mining industry is still expanding, comprehensive information on the effects of mining activities on the environment is needed. This book provides information on biological and physico-chemical treatments of mining effluents, on factors affecting human health and on environmental effects that have to be taken into account by the mining industry when aiming for sustainable development of their industry. Further regulatory guidelines and legislation relevant to the decommissioning of mining sites are reviewed. Mining industry, consulting companies, and governmental agencies alike will find a wealth of valuable information in this book.

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