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Autore	Marrugo Negrete José
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Altri autori (Persone)	JonathanM. P RamanathanA. L ChidambaramS NagarajanR KumarPankaj
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Soggetti	Mining engineering Environmental management Pollution Mining and Exploration Environmental Management
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Nota di contenuto	Mining Tailings and Dam Failures in Latin American Mining Countries -- Geographical Information Systems (GIS), a Tool for the Assessment of the Impact of Open-Pit Mining in Exploitation Areas in Colombia -- Pollution Assessment of Soil and Groundwater Resources around the Gold and Chromite Mining Regions of Southern India -- Impact of Heavy Metal Pollution on Soil and Groundwater Quality in the Vicinity of Coal Mines -- Mining Activities – Risks and Challenges to Environment and Human Health in Sub-Saharan Africa -- Mining Impact on Uttarakhand's Hill Ecology -- Risk Exposure to Mercury (Hg): Factors Associated in Sentinel Animal Models Exposed to Small Scale Artisanal Mining Areas (ASM) -- Advanced Oxidation Process Applied to Cyanidation Treatment of Wastewater: A case Study of a Gold Mining

Area in Colombia -- Hydrogeochemical Characterization of Groundwater in Ambagarh Regions: Mining-Rich State Chhattisgarh, India -- Gold Mine Tailings Treatments: Biotechnological Approaches -- Production of Silver Jewellery in Taxco, Guerrero, Mexico, Versus the Objectives of Sustainable Development -- Decarbonisation Policies in Mexico -- Decarbonization in Maritime Sector and Its Path to Sustainability.

Sommario/riassunto

This book entitled "Mining Impacts and their Environmental Problems" presents a comprehensive view on various mining activities and a wide spectrum of environmental challenges associated with it. Case studies presented across global south such as Asia, Africa, and Latin America, are the first of its kind which presents a holistic and deep insight (into instead of about?) about this pressing environmental issue. In this book, thirteen chapters present various issues ranging from gold, silver, chromium, lead, coal mining, and its impacts on ambient environmental (soil, water, biodiversity) degradation and ultimately on (healthy living environment instead of human health living?) human health living in the surrounding area. For this purpose, (different methodologies have been used) they have used different methodologies(for example instead of like using) like using (a) water quality index, hydro-chemical characterization, numerical simulation to identify the extent of pollution caused(by instead of due to?) due to mining activities. Later it (the book) advocates the usage of advance mining technologies such as advanced oxidation processes, decarbonization technologies and a biotechnological approach for the treatment of wastewater being generated due to mining activities or minimizing overall environmental degradation. Finally, it emphasizes on assessing risk zone delineation, vulnerability analysis using cutting edge tools like numerical simulation, GIS and remote sensing, which will help designing robust management plans and sustainable transitions, critically helpful for policy makers or decision makers. .
