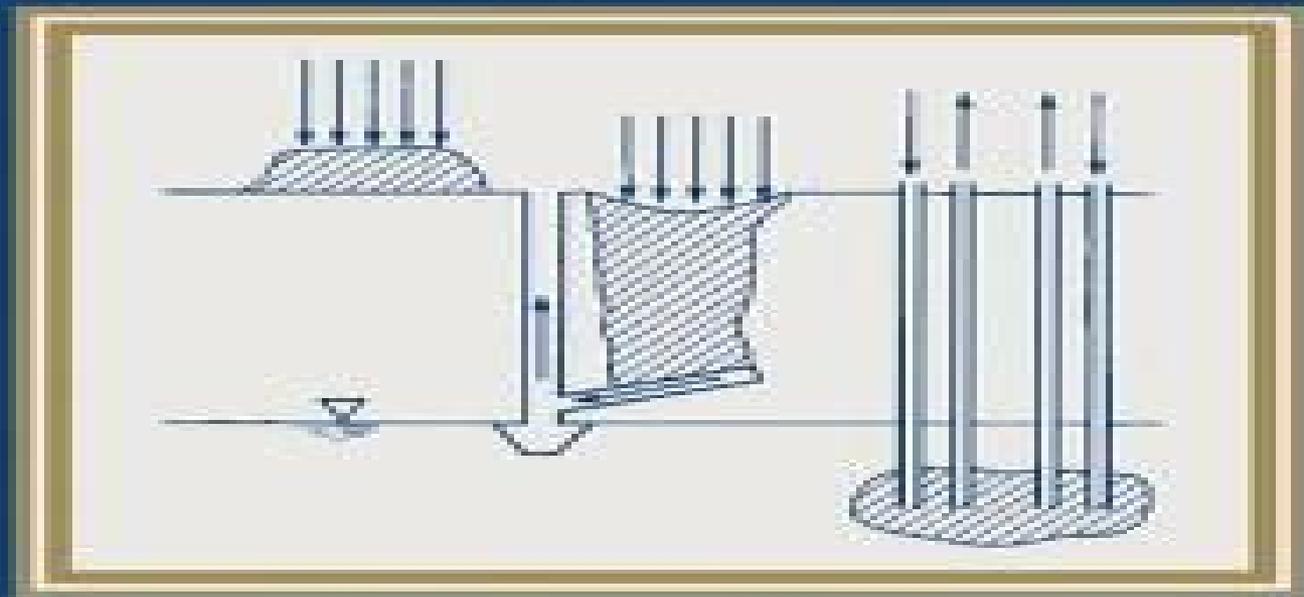


SOLUTION MINING

Leaching and Fluid Recovery of Materials

Second Edition



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Solution Mining Robert W. Bartlett, 1998 First Published in 1998 Routledge is an imprint of Taylor Francis an informa company

[Solution Mining](#) Robert Bartlett, 2013-10-28 First published in 1998 This book offers a wealth of information on the rapidly expanding field of solution mining the extraction of materials from the earth by leaching and fluid recovery This is an introductory text for students and professional engineers that is comprehensive and emphasizes current practice and theory Percolation leaching of fragmented ground is covered as well as true and modified in situ leaching Solution mining of gold copper and uranium ores several slats extracted from evaporates and brines and sulfur are discussed Mineral leaching chemistry and kinetics hydrology including flow equations for various wellfields and other fluid recovery systems environmental containment and solution mining simulation models are also included

Engineering Tools for Environmental Risk Management Katalin Gruiz, Tamas Meggyes, Eva Fenyvesi, 2014-08-08 This is the first volume of the five volume book series *Engineering Tools for Environmental Risk Management* dealing with the following topics types and management of environmental deterioration particularly pollution environmental toxicology as a versatile tool in monitoring and risk management risk assessment of chemical substances and contaminated land risk reduction measures focusing on bio and ecotechnologies case studies demonstrating the interaction between regulation management and engineering and the individual application of engineering tools The book series focuses on the state of knowledge concerning the environment and its conscious and structured application in environmental engineering management decision making and legislation This first volume provides an overview of the behavior and function of the healthy environment and the capacity of the ecosystem to serve mankind and to compensate for adverse changes The prime causes of these changes are production and use of chemical substances abandoned and contaminated land intensive agriculture mining and the complex problem of waste The first volume establishes the foundation of the holistic approach used in a progressive environmental protection by striking a balance between nature's needs and engineering capabilities understanding the interaction between regulation management and engineering applying novel technologies and innovative scientific and engineering tools The aggregated information and knowledge disseminated in this volume provides a broad perspective for engineers to adjust their tools to the best management practices and for managers and decision makers to find synergy between their goals and existing engineering solutions This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering management and decision making

[Treatise on Process Metallurgy, Volume 2B](#) Seshadri Seetharaman, Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, H. Y. Sohn, 2025-07-01 *Treatise on Process Metallurgy Volume 2B Unit Processes* presents various unit processes with an emphasis on mineral processing hydrometallurgy and electrochemical materials and energy processes The book highlights the roles of these processes in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels reflecting the shift toward green

and electrochemical processes Basic knowledge of thermodynamics and kinetics is provided for better understanding of metallurgical processes The first section of the book covers mineral processing providing insight on comminution separation processes dewatering and tailings disposal The second section focuses on hydrometallurgy discussing leaching separation purification metal recovery and battery materials and the book concludes with a section studying electrochemical material and energy featuring coverage of molten oxide electrolysis molten carbonate fuel cells various sensors and ionic liquids Each section also includes various case studies demonstrating the use of the concepts in real world settings Covers mineral processing electrochemical materials and hydrometallurgy and their roles in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels Provides basic knowledge on thermodynamics and kinetics needed for understanding the principles of metallurgical processes Includes a section on electrochemical materials and energy processes covering molten salts electrolysis fuel cells and nuclear molten salt reactors Features insight into the entire process chain unit processes that are generally overlooked and unit processes that combine hydro electro and pyro processes in an optimal way

Evolutionary and Revolutionary Technologies for Mining National Research Council, Committee on Earth Resources, Board on Earth Sciences and Resources, National Materials Advisory Board, Committee on Technologies for the Mining Industries, 2002-04-14 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

In Situ Recovery & Remediation of Metals Drummond Earley III, 2020-03-27 Current trends in mining are driving the demand for subsurface extraction technologies with low surface impacts that protect surface and ground water Moreover the necessity for sustainable mineral extraction technologies has increased as regulatory restrictions and technical challenges to traditional mining grow with production from deeper and deeper remaining metal resources This book provides a state of the art synopsis of in situ metal recovery and remediation technologies based on both research and commercial projects In situ recovery uses fluid based metal dissolution and recovery to extract one or more commodities from a largely intact rock mass using similar processes that create ore deposits The fluid is circulated through ore by gravity and or pumps using injection and recovery wells A processing facility is usually established at the surface of the operation to extract the commodity of interest The barren fluid is then recirculated back into the recovery circuit In situ remediation uses similar wellfield technology and chemical processes to stabilize metal contaminants by injecting agents that form stable solids or less toxic

species when combined with a contaminant The fluid depleted in the stabilizing agent is then pumped back to the surface and regenerated In situ mining or recovery has been successfully applied to several commodities including uranium sulfur evaporites and copper which have favorable chemical properties and deposit types for in situ recovery

Biohydrometallurgy of Chalcopyrite Hongbo Zhao, Congren Yang, Xian Zhang, Yisheng Zhang, Guanzhou Qiu, 2021-07-29 Bioleaching of chalcopyrite is always a challenge and research hotspot The low copper extraction and dissolution kinetics restricted the industrial application of chalcopyrite bioleaching To solve this problem the dissolution process and passivation mechanism of chalcopyrite in bioleaching should be first studied then the rate limiting steps should be analysed explicitly and finally the intensifying method can be put forward Many scholars have made efforts to investigate the dissolution mechanism of chalcopyrite in bioleaching However there is no congruence of opinion as yet Biohydrometallurgy of Chalcopyrite summarizes and discusses the reported research findings In addition this book publishes the related results found by the authors research Then the dissolution mechanism of chalcopyrite in bioleaching is interpreted Finally the process intensification techniques of chalcopyrite bioleaching are provided and discussed Hence this book provides useful reference and guidance in both laboratory research and industrial production Interprets the dissolution mechanism of chalcopyrite in bioleaching Provides feasible technologies for intensifying chalcopyrite bioleaching Overviews the current situations of chalcopyrite bioleaching Helps the readers to deeply understand the bioleaching mechanisms of chalcopyrite Provides topics for future research and potential industrial applications

In Situ Leaching and Solution Mining University of Utah. Research Institute, 1983 Materials intended to supplement In situ leaching and solution mining state of the art and recommended research by Phillip M Wright

Inplace Leaching and Solution Mining Mackay School of Mines, 1976*

Current Status of Low-Grade Minerals and Mine Wastes Recovery Leiming Wang, Shenghua Yin, 2023 This reprint is tightly related to minerals engineering The solution mining heap leaching in situ leaching etc offers an environmentally friendly low cost and efficient method to extract these minerals especially copper sulfides chalcopyrite chalcocite etc sandstone uranium and sandstone gold deposits After years of development solution mining has made great progress but it has also encountered some technical bottlenecks To better understand the current status of low grade minerals and mine wastes recovery we carefully collected 13 contributions in this Special Issue which are mainly divided into following three aspects Reaction mechanisms of chemical bio leaching includes the leaching kinetics of copper sulfides assisted leaching chloride acidic leaching iodide assisted leaching etc in situ leaching of uranium and salt deposits etc Process detection characterization and visualization includes the detection of reaction products visualization of fluid flow and mass transfer pore structure characterization of leaching systems ore packed beds etc microbial successions of leaching bacteria etc Recovery recycle and reuse of mine wastes includes cleaner leaching disposal or production methods dump leaching etc the recovery of mine waste waste rock tailings etc assessment of operations problems etc

Nuclear Solution Mining, 1973

In Situ Leaching and Solution Mining Phillip M. Wright,1983 *Heap and Dump Leaching Practice* J. Brent Hiskey,1984 The Modelling of Vat, Heap, Dump and In-situ Leaching Systems R. G. Whittemore,1981 **Improvements in Heap Leaching to Recover Silver and Gold from Low-grade Resources** G. E. McClelland,Judith A. Eisele,1982 Solution Mining Process Using Ion Exchange, Prepared for National Science Foundation, Washington Donald E. Garrett,1978 **Solution mining in two-well system** Heinz-Erich Meyer,1970 **Mining and Processing Residues** Olga Chernoburova,Alexandre Chagnes,2023-02-15 Mining and Processing Residues Future s Source of Critical Raw Materials provides a comprehensive review of principal aspects of the CRM containing residues re processing including available sampling and analytical techniques latest available processing technologies authorization and legal matters and analysis of environmental social and economic impacts Suitable for academic researchers practicing engineers and students the book is aimed at giving a complete and multilateral view of CRMs recovery from the residues Includes the most relevant techniques for residue sampling and analysis Describes most recent technologies applicable for residue re processing Covers authorization and legal aspects of residue storage and re processing Includes case studies Provides analysis of environmental social and economic impacts of residue re processing **Solution Mining Systems and Methods for Treating Hydrocarbon Containing Formations** ,2009 A method for treating an oil shale formation comprising nahcolite is disclosed The method includes providing a first fluid to a portion of the formation through at least two injection wells A second fluid is produced from the portion through at least one injection well until at least two injection wells are interconnected such that fluid can flow between the two injection wells The second fluid includes at least some nahcolite dissolved in the first fluid The first fluid is injected through one of the interconnected injection wells The second fluid is produced from at least one of the interconnected injection wells Heat is provided from one or more heaters to the formation to heat the formation Hydrocarbon fluids are produced from the formation *The Effects of Simulated Deep Solution Mining Conditions on the Activity of Iron and Sulfur Oxidizing Bacteria* Mike S. Davidson,1982

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