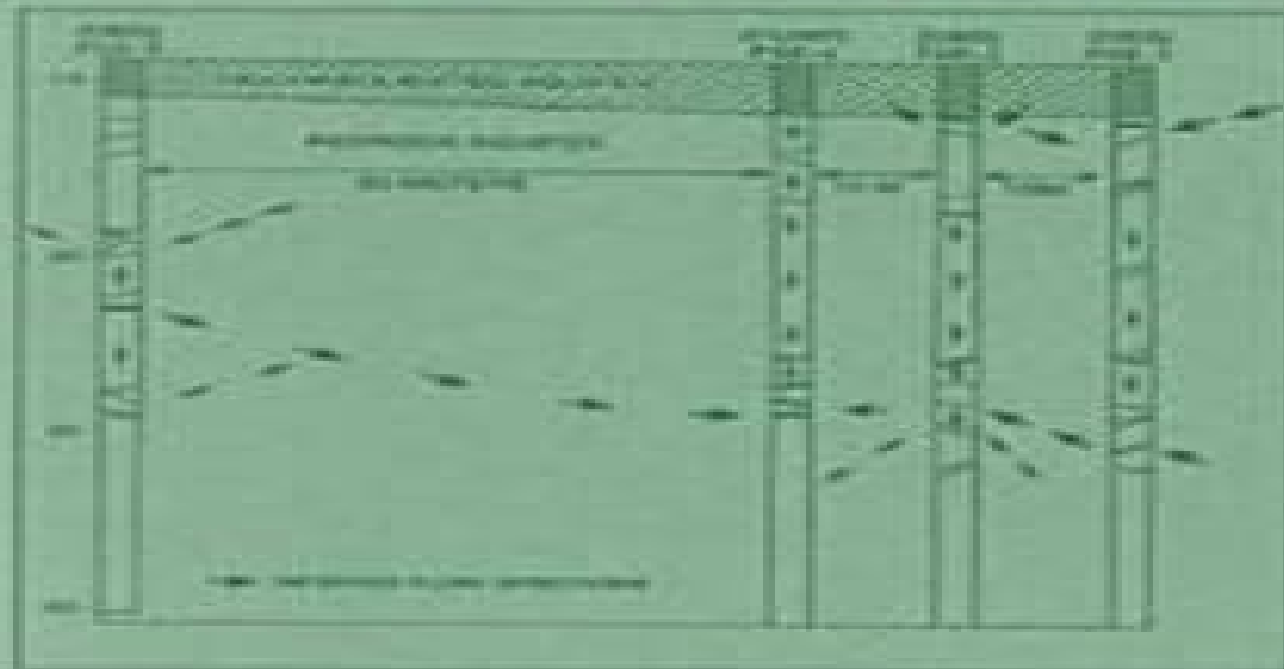


Remediation in Rock Masses



Hilary I. Inyang
Clifford J. Bruell

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Remediation In Rock Masses

**Giorgio Lollino, Andrea Manconi, Fausto
Guzzetti, Martin Culshaw, Peter
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Remediation In Rock Masses:

Remediation in Rock Masses Hilary I. Inyang, Clifford J. Bruell, 2000-01-01 Presenting the problems and solutions to the issue of contaminated rock site remediation this book provides theoretical analyses case studies and recommendations It offers an overview of modeling site characterization and remediation techniques and includes topics as theoretical modeling of liquid movement and mixing in rock fractures

Geomechanics and Geodynamics of Rock Masses Vladimir Litvinenko, 2018-05-15 Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22 26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Bioaugmentation for Groundwater Remediation Hans F. Stroo, Andrea Leeson, C. Herb Ward, 2012-10-02 This volume provides a review of the past 10 to 15 years of intensive research development and demonstrations that have been on the forefront of developing bioaugmentation into a viable remedial technology This volume provides both a primer on the basic microbial processes involved in bioaugmentation as well as a thorough summary of the methodology for implementing the technology This reference volume will serve as a valuable resource for environmental remediation professionals who seek to understand evaluate and implement bioaugmentation

Geomechanics and Geodynamics of Rock Masses, Volume 1 Vladimir Litvinenko, 2018-05-20 This book is Volume 1 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22 26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining

hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK Surfactants and Cosolvents for NAPL Remediation A Technology Practices Manual Donald F. Lowe, Carroll L. Oubre, C. H. Ward, 1999-03-26 A 19 3 million Department of Defense grant to Rice University funds the Advanced Applied Technology Demonstration Facility AATDF One of the project goals is the development of reduction strategies for nonaqueous phase liquids NAPLs in the subsurface Surfactants and Cosolvents for NAPL Remediation records the results of AATDF research The manual is a guide to the practical application of surfactants cosolvent for in situ remediation It is targeted to decision makers and anyone concerned with the design or implementation of these technologies The book discusses the situational viability of surfactants cosolvents the possible results design and operation It includes case studies step by step guidance and project cost work sheets The successful results of the AATDF research as documented Surfactants and Cosolvents for NAPL Remediation are an invaluable contribution to the future of subsurface remediation Without source NAPL reduction the alternative is decades of plume management through pump and treat **Remediation of Former Manufactured Gas Plants and Other Coal-Tar Sites** Allen W. Hatheway, 2011-07-27 Winner of the 2013 Claire P Holdredge Awardee for Remediation of Former Manufactured Gas Plants and Other Coal Tar Sites This award first established in 1962 by the Association of Environmental and Engineering Geologists is named in honor of Claire P Holdredge a founding member and the first President of the Association The award is **Site Assessment and Remediation Handbook** Martin N. Sara, 2003-06-27 Completely revised and updated the Second Edition of Site Assessment and Remediation Handbook provides coverage of new procedures and technologies for an expanded range of site investigations With over 700 figures tables and flow charts the handbook is a comprehensive resource for engineers geologists and hydrologists conducting site investi Geomechanical Aspects of Abandoned Room and Pillar Mines and Remediation Measures Ömer Aydan, 2025-06-13 Geomechanical Aspects of Abandoned Room and Pillar Mines and Remediation Measures addresses the occurrence prediction and control of subsidence issues encountered in room and pillar mining including creep degradation and seismic aspects The book distinguishes itself by Presenting a unified treatise on room and pillar mines Using clear definitions and explanations of fundamental concepts Considering long term aspects creep and degradation seismic effects remedial measures contact types and remote sensing monitoring techniques Including physical and numerical modeling Demonstrating an in depth view of procedures and solution techniques This book provides a clear understanding of active and or abandoned room and pillar mines It is aimed at academics and engineers with a mining and or civil engineering background but it also serves as a reference for undergraduate and graduate students *Advancing*

Culture of Living with Landslides Kyoji Sassa, Matjaž Mikoš, Yueping Yin, 2017-05-16 This book is open access under a CC BY 4.0 license This volume contains peer reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides ICL the Global Promotion Committee of the International Programme on Landslides IPL University of Ljubljana UL and Geological Survey of Slovenia in Ljubljana Slovenia from May 29 to June 2 2017 The complete collection of papers from the Forum is published in five full color volumes This first volume contains the following Three forum lectures Background and Content of the Sendai Partnerships 2015-2025 Contribution from the signatory organizations of the Sendai Partnerships Landslide Dynamics ISDR ICL Landslide Interactive Teaching Tools LIT T Progress of the World Report on Landslides WRL International Programme on Landslides IPL Objects History and List of WCoE IPL projects UNESCO KU ICL UNITWIN Network supporting IPL Landslides Journal of International Consortium on Landslides International Programme on Landslides IPL WCoEs and IPL Projects Landslides and Society Prof Kyoji Sassa is the Founding President of the International Consortium on Landslides ICL He is Executive Director of ICL and the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Matja Miko is the Forum Chair of the Fourth World Landslide Forum He is the Vice President of International Consortium on Landslides and President of the Slovenian National Platform for Disaster Risk Reduction Prof Yueping Yin is the President of the International Consortium on Landslides and the Chairman of the Committee of Geo Hazards Prevention of China and the Chief Geologist of Geo Hazard Emergency Technology Ministry of Land and Resources P R China IPL International Programme on Landslides is a programme of the ICL The programme is managed by the IPL Global Promotion Committee including ICL and ICL supporting organizations UNESCO WMO FAO UNISDR UNU ICSU WFEO IUGS and IUGG The IPL contributes to the United Nations International Strategy for Disaster Reduction and the ISDR ICL Sendai Partnerships 2015-2025

Specialty Construction Techniques for Dam and Levee Remediation Donald A. Bruce, 2012-09-26 Dam and levee remediation has become more prevalent since the start of the twenty first century Given the vastness and complexity of the infrastructures involved keeping up with maintenance needs is very difficult Major surges in repair are usually triggered by nature's wake up calls such as hurricanes floods and earthquakes The challenge has been to develop methods that ensure safe effective reliable and robust solutions for current and future remediation issues Specialty Construction Techniques for Dam and Levee Remediation presents the state of practice in North American dam and levee remediation as it relates to the use of specialty geotechnical construction techniques such as anchors grouting cutoff diaphragm walls and deep mixing The book focuses on the actual construction processes describing design and performance aspects of remediation where appropriate Chapters deal with the application of drilling and grouting methods methods to install mix in place category 2 cutoff structures excavated and backfilled trenches category 1 composite cutoff walls and stabilization using prestressed rock anchors The book also provides a comprehensive guide to dam and levee instrumentation covering planning operating principles data management staffing and automation As

an educational and salutary example of ineffective efforts the final chapter presents a case history of a series of remediations performed on a single project which ultimately proved unsuccessful A wide range of methods has been developed in response to the challenges that arise in the dam and levee remediation arena and the need for a competitive edge These new methods are designed and monitored using state of the art techniques giving rise to the emergence of new intensity and initiative in this field This book captures this transformation by examining the theory and practice of contemporary remedial techniques using recent U S case histories to provide knowledge and inspiration to readers both in North America and around the world

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 *Civil Engineering and Energy-Environment Vol 1* Qingfei Gao, Zhenhua Duan, 2023-06-20 Civil Engineering and Energy Environment focuses on the research of civil engineering environment resources and energy materials This proceedings gathers the most cutting edge research and achievements aiming to provide scholars and engineers with preferable research direction and engineering solution as reference Subjects in this proceedings include Engineering Structure Environmental Protection Materials Architectural Environment Environment Resources Energy Storage Building Electrical Engineering The works of this proceedings will promote development of civil engineering and environment engineering Thereby promote scientific information interchange between scholars from top universities research centers and high tech enterprises working all around the world [Landslides: Evaluation and Stabilization/Glisement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes](#) W. Lacerda, Mauricio Ehrlich, S.A.B. Fontoura, A.S.F. Sayao, 2004-06-15 These volumes comprise the Proceedings of the Ninth International Symposium on Landslides held in Rio de Janeiro Brazil from June 28 to July 2 2004 A wealth of the latest information on all aspects of landslide hazard encompassing geological modelling and soil and rock mechanics

landslide processes causes and effects and damage avoidance and limitation strategies The Economics of Groundwater Remediation and Protection Paul E. Hardisty, Ece Ozdemiroglu, 2004-12-20 Economic literature is often too theoretical for engineers and policymakers to put into practical use while scientific literature on the remediation of contaminated aquifers rarely considers costs and benefits Written by a hydrogeologist and an economist The Economics of Groundwater Remediation and Protection integrates economics and cost benefit analysis tools with optimal protection and remediation strategies for groundwater resources The book provides a thorough introduction of the concepts of groundwater flow and contaminant transport and the basics of economic decision making techniques It illustrates the types of risks and impacts caused by groundwater contamination and the economic benefits of its remediation The volume reviews a wide range of issues such as cost implementation and expectations of success for the latest remediation trends and techniques The book shows how economic analysis can be used to determine how much we should pay for groundwater clean up and when spending too much or too little actually makes us all worse off The authors step by step methodology for decision making focuses on determining optimal remedial objectives from containment to extensive cleanup and the selection of least cost alternatives They use examples from their personal experience to illustrate the methodologies in action and put the issues into perspective Combining the theoretical and practical aspects of science policy and economics this book places the importance of groundwater remediation in the context of environmental economics protection and preservation The Economics of Groundwater Remediation and Protection is also an excellent introduction to innovative solutions for funding remediation projects education and incentive programs such as mitigation banking land pollution credit schemes and conservation credit alternatives Guidelines for Open Pit Slope Design in Weak Rocks Derek Martin, Peter Stacey, 2018-01-10 Weak rocks encountered in open pit mines cover a wide variety of materials with properties ranging between soil and rock As such they can provide a significant challenge for the slope designer For these materials the mass strength can be the primary control in the design of the pit slopes although structures can also play an important role Because of the typically weak nature of the materials groundwater and surface water can also have a controlling influence on stability Guidelines for Open Pit Slope Design in Weak Rocks is a companion to Guidelines for Open Pit Slope Design which was published in 2009 and dealt primarily with strong rocks Both books were commissioned under the Large Open Pit LOP project which is sponsored by major mining companies These books provide summaries of the current state of practice for the design implementation and assessment of slopes in open pits with a view to meeting the requirements of safety as well as the recovery of anticipated ore reserves This book which follows the general cycle of the slope design process for open pits contains 12 chapters These chapters were compiled and written by industry experts and contain a large number of case histories The initial chapters address field data collection the critical aspects of determining the strength of weak rocks the role of groundwater in weak rock slope stability and slope design considerations which can differ somewhat from those

applied to strong rock The subsequent chapters address the principal weak rock types that are encountered in open pit mines including cemented colluvial sediments weak sedimentary mudstone rocks soft coals and chalk weak limestone saprolite soft iron ores and other leached rocks and hydrothermally altered rocks A final chapter deals with design implementation aspects including mine planning monitoring surface water control and closure of weak rock slopes As with the other books in this series *Guidelines for Open Pit Slope Design in Weak Rocks* provides guidance to practitioners involved in the design and implementation of open pit slopes particularly geotechnical engineers mining engineers geologists and other personnel working at operating mines

Electrokinetic Remediation for Environmental Security and Sustainability Alexandra B. Ribeiro, Majeti Narasimha Vara Prasad, 2021-03-22 *Electrokinetic Remediation for Environmental Security and Sustainability* Explore this comprehensive reference on the remediation of contaminated substrates filled with cutting edge research and practical case studies *Electrokinetic Remediation for Environmental Security and Sustainability* delivers a thorough review of electrokinetic remediation EKR for the treatment of inorganic and organic contaminants in contaminated substrates The book highlights recent progress and developments in EKR in the areas of resource recovery the removal of pollutants and environmental remediation It also discusses the use of EKR in conjunction with nanotechnology and phytoremediation Throughout the book case studies are presented that involve the field implementation of EKR technologies The book also includes discussions of enhanced electrokinetic remediation of dredged co contaminated sediments solar powered bioelectrokinetics for the mitigation of contaminated agricultural soil advanced electro fenton for remediation of organics electrokinetic remediation for PPCPs in contaminated substrates and the electrokinetic remediation of agrochemicals such as organochlorine compounds Other topics include A thorough introduction to the modelling of electrokinetic remediation An exploration of the electrokinetic recovery of tungsten and removal of arsenic from mining secondary resources An analysis of pharmaceutically active compounds in wastewater treatment plants with a discussion of electrochemical advanced oxidation as an on site treatment A review of rare earth elements including general concepts and recovery techniques like electrodialytic extraction A treatment of hydrocarbon contaminated soil in cold climate conditions Perfect for environmental engineers and scientists geologists chemical engineers biochemical engineers and scientists working with green technology *Electrokinetic Remediation for Environmental Security and Sustainability* will also earn a place in the libraries of academic and industry researchers engineers regulators and policy makers with an interest in the remediation of contaminated natural resources

Measurement of Blast Fragmentation John A. Franklin, 2018-12-19 A collection of workshop papers providing state of the art reviews on all aspects of fragmentation including photographic requirements image enhancement statistical treatment and applications in quarrying mining and minerals processing industries

Transactions of the American Society of Civil Engineers American Society of Civil Engineers, 2001 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis

1904 **Engineering Geology for Society and Territory - Volume 5** Giorgio Lollino, Andrea Manconi, Fausto Guzzetti, Martin Culshaw, Peter Bobrowsky, Fabio Luino, 2014-08-25 This book is one out of 8 IAEG XII Congress volumes and deals with the theme of urban geology Along with a rapidly growing world population the wave of urban growth continues causing cities to swell and new metropolitan centers to emerge These global trends also open new ventures for underground city development Engineering geology plays a major role in facing the increasing issues of the urban environment such as finding aggregates for construction works providing adequate water supply and waste management solving building problems associated to geological and geomorphological conditions evaluating host rock conditions for underground constructions preventing or mitigating geological and seismic hazards Furthermore this book illustrates recent advancements in sustainable land use planning which includes conservation protection reclamation and landscape impact of open pit mining and alternative power generation The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15 19 2014 analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress environment processes issues and approaches The congress topics and subject areas of the 8 IAEG XII Congress volumes are 1 Climate Change and Engineering Geology 2 Landslide Processes River Basins 3 Reservoir Sedimentation and Water Resources 4 Marine and Coastal Processes Urban Geology 5 Sustainable Planning and Landscape Exploitation 6 Applied Geology for Major Engineering Projects 7 Education Professional Ethics and Public Recognition of Engineering Geology 8 Preservation of Cultural Heritage *Guidelines for Open Pit Slope Design* John Read, Peter Stacey, 2009-11-09 *Guidelines for Open Pit Slope Design* is a comprehensive account of the open pit slope design process Created as an outcome of the Large Open Pit LOP project an international research and technology transfer project on rock slope stability in open pit mines this book provides an up to date compendium of knowledge of the slope design processes that should be followed and the tools that are available to aid slope design practitioners This book links innovative mining geomechanics research into the strength of closely jointed rock masses with the most recent advances in numerical modelling creating more effective ways for predicting rock slope stability and reliability in open pit mines It sets out the key elements of slope design the required levels of effort and the acceptance criteria that are needed to satisfy best practice with respect to pit slope investigation design implementation and performance monitoring *Guidelines for Open Pit Slope Design* comprises 14 chapters that directly follow the life of mine sequence from project commencement through to closure It includes information on gathering all of the field data that is required to create a 3D model of the geotechnical conditions at a mine site how data is collated and used to design the walls of the open pit how the design is implemented up to date procedures for wall control and performance assessment including limits blasting scaling slope support and slope monitoring and how formal risk management procedures can be applied to each stage of the process This book will assist in meeting stakeholder requirements for pit slopes that are stable in regards to safety ore recovery and financial return for the required

life of the mine

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