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EDITION

INTRODUCTORY
MINING
ENGINEERING

Howard L. Hartman - Jan M. Mutmansky

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Mike Jess



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professionals Introductory Mining Engineering Howard L. Hartman,1987-07-24 A beginning text and elementary reference book in mining engineering which adopts both a quantitative and a numerical approach Provides in depth treatment of the applications of mining engineering while reinforcing material with clear complete analyses of special topics as well as numerical examples and problems Initial chapters are devoted to fundamentals explaining the four stages of mining prospecting exploration development exploitation and the unit operations of mining The text continues with coverage of surface mining and underground mining Highlights novel methods and provides case studies answers to selected problems extensive references and bibliography and both English and SI or metric units **Introductory Mining Engineering** Hartman,2002-10-01 *Surface and Underground Excavations, 2nd Edition* Ratan Raj Tatiya,2013-05-13 Surface and Underground Excavations Methods Techniques and Equipment 2nd edition covers the latest technologies and developments in the excavation arena at any locale surface or underground In the first few chapters unit operations are discussed and subsequently excavation techniques are described for various operations tunnelling drifting raising sinking stoping quarrying surface mining liquidation and mass blasting as well as construction of large subsurface excavations such as caverns and underground chambers The design planning and development of excavations are treated in a separate chapter Especially featured are methodologies to select stoping methods through incremental analysis Furthermore this edition encompasses comprehensive sections on mining at ultra depths mining difficult deposits using non conventional technologies mineral inventory evaluation ore reserves estimation and mine closure Concerns over Occupational Health and Safety OHS environment and loss prevention and sustainable development are also addressed in advocating a solution to succeed within a scenario of global competition and recession This expanded second edition has been wholly revised brought fully up to date and includes wherever feasible the latest trends and best practices case studies global surveys and toolkits as well as questions at the end of each chapter This volume will now be even more appealing to students in earth sciences geology and in civil mining and construction engineering to practicing engineers and professionals in these disciplines as well as to all with a general or professional interest in surface and underground excavations *Surface and Underground Excavations* Ratan Raj Tatiya,2005-08-18 This comprehensive text explores the technologies and developments in excavations for any type of surface or underground excavation The first several chapters cover unit operations including drilling explosives and blasting mucking haulage hoisting and supports and reinforcement The book then describes excavation techniques for various operations such as tunneling raising sinking drifting stoping quarrying and surface mining underground mining pillar blasting and liquidation It also examines the design planning and analysis of excavations as well as the construction of surface and subsurface excavations such as caverns Case studies focus on heavy underground blasting during pillar recoveries Surface Mining Technology Mostafa Mohamed Ali Elbeblawi,Hassan Ali Abdelhak Elsaghier,Mostafa Tantawy Mohamed Amin,Wael Rashad Elrawy Abdellah,2021-07-31 This book gives a brief history and a general overview of the state

of surface mining technology with topics ranging from the principles to surface mining methods systems and pit planning design It starts with the definition of surface mine and ends with land reclamation and mine closure The following chapters address the basics of mineral economics calculation of stripping ratio exploitation of difficult parts of ore deposits slope stability controlling falls and slides in the surface mines sorts of freight traffic scrapers bulldozers and loaders The book serves as a reference text for mining students engineers and geologists **McGraw-Hill Encyclopedia of Engineering** Sybil P. Parker,1993 **McGraw-Hill Concise Encyclopedia of Engineering** McGraw Hill,2005-06-15 Hundreds of well illustrated articles explore the most important fields of science Based on content from the McGraw Hill Concise Encyclopedia of Science Technooogy Fifth Edition the most widely used and respected science reference of its kind in print each of these subject specific quick reference guides features Detailed well illustrated explanations not just definitions Hundreds of concise yet authoritative articles in each volume An easy to understand presentation accessible and interesting to non specialists A portable convenient format Bibliographies appendices and other information supplement the articles Journal of the South African Institute of Mining and Metallurgy South African Institute of Mining and Metallurgy,2004-07

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