

# **THE ECONOMIC DEFINITION OF ORE**

**Kenneth F. Lane**

**CUT-OFF GRADES IN THEORY AND PRACTICE**

# Economic Definition Of Ore Cutoff Grades In Theory And Practice

**Jean-Michel Rendu**



## **Economic Definition Of Ore Cutoff Grades In Theory And Practice:**

**The Economic Definition of Ore** Kenneth F. Lane, 1988      Mine Planning and Equipment Selection 2004 Monika Hardygóra, Gabriela Paszkowska, Marek Sikora, 2004-08-15 Spearheading the promotion of international technology transfer in the fields of mine planning mining systems design equipment selection and operation techniques the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field Here in this volume proceedings from the thirteenth annual symposium concentrate on the following major topics open pit and underground mine planning modelling and design geomechanics mining and processing methods design monitoring and maintenance of mine equipment simulation optimization and control of technological processes management mine economics and financial analysis health safety and environmental protection Including 147 papers from leading experts and authorities Mine Planning and Equipment Selection undoubtedly provides valuable information and insight for a range of engineers scientists researchers and consultants involved in the planning design and operation of underground and surface mines      *An Introduction to Cut-off Grade Estimation, Second Edition* Jean-Michel Rendu, 2014-01-10 An Introduction to Cut off Grade Estimation examines one of the most important calculations in the mining industry Cut off grades are essential to determining the economic feasibility and mine life of a project Profitability and socioeconomic impact of mining operations are influenced by the choice of cut off grades Cut off grades play a key role in estimating mineral reserves that can be publicly reported This new edition is easier to read and of greater practical interest to practitioners The relationship between optimization of net present value capacity constraints and opportunity cost is explained in greater detail A new section discusses blending strategies which play a critical role in an increasing number of mining operations Author Jean Michel Rendu an internationally recognized expert in the management estimation and public reporting of mineral resources provides practical insights As a manager in major mining companies a consultant and an educator Rendu has acquired considerable experience in all aspects of mining engineering experience that was incorporated into this publication      **Advanced Analytics in Mining Engineering** Ali Soofastaei, 2022-02-23 In this book Dr Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day to day operations one business decision at a time Most mining companies have a massive amount of data at their disposal However they cannot use the stored data in any meaningful way The powerful new business tool advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results From statistical analysis to machine learning and artificial intelligence the authors show how many analytical tools can improve decisions about everything in the mine value chain from exploration to marketing Combining the science of advanced analytics with the mining industrial business solutions introduce the Advanced Analytics in Mining Engineering Book as a practical road map and tools for unleashing the potential buried in your company s data The book is aimed at

providing mining executives managers and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value cost and risk of potential analytical solutions In addition the book will provide the next generation of miners undergraduate and graduate IT and mining engineering students with an understanding of data analytics applied to the mining industry By providing a book with chapters structured in line with the mining value chain we will provide a clear enterprise level view of where and how advanced data analytics can best be applied This book highlights the potential to interconnect activities in the mining enterprise better Furthermore the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain in line with the emerging vision of creating a digital mine with much enhanced capabilities for modeling simulation and the use of digital twins in line with leading digital industries Applied Mineral Inventory Estimation Alastair J. Sinclair, Garston H. Blackwell, 2006-01-19

Applied Mineral Inventory Estimation presents a comprehensive applied approach to the estimation of mineral resources reserves with particular emphasis on the geological basis of such estimations the need for and maintenance of a high quality assay data base the practical use of a comprehensive exploratory data evaluation and the importance of a comprehensive geostatistical approach to the estimation methodology Practical problems and real data are used throughout as illustrations each chapter ends with a summary of practical concerns a number of practical exercises and a short list of references for supplementary study This textbook is suitable for any university or mining school that offers senior undergraduate and graduate student courses on mineral resource reserve estimation It will also be valuable for professional mining engineers geological engineers and geologists working with mineral exploration and mining companies **Mineral Deposit**

**Evaluation** A.E. Annels, 2012-12-06 Although aspects of mineral deposit evaluation advantages and disadvantages of each technique are covered in such texts as McKinstry 1948 so that a judgement can be made as to their Peters 1978 Reedman 1979 and Barnes applicability to a particular deposit and the min 1980 no widely available in depth treatment of ing method proposed or used Too often a lack the subject has been presented It is thus the of this expertise results in the ore reserve calcula intention of the present book to produce a text tion being undertaken at head office or indeed by the survey department on the mine and being which is suitable for both undergraduate and treated as a number crunching or geometric postgraduate students of mining geology and exercise divorced from geology It is essential mining engineering and which at the same time that mine ore reserves are calculated at the mine is of use to those already following a professional by those geologists who are most closely associ career in the mining industry An attempt has ated with the local geology and who are thus best been made to present the material in such a way able to influence and or constrain the calculation **Mineral Resources** Manuel Bustillo Revuelta, 2017-08-23 This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities It begins with general concepts like definitions of mineral resources

mineral resources and humans recycling mineral resources distribution of minerals resources across Earth and international standards in mining among others Then it turns to a classification of mineral resources covering the main types from a geological standpoint The exploration of mineral resources is also treated including geophysical methods of exploration borehole geophysical logging geochemical methods drilling methods and mineral deposit models in exploration Further the book addresses the evaluation of mineral resources from sampling techniques to the economic evaluation of mining projects i e types and density of sampling mean grade definition and calculation Sichel s estimator evaluation methods classical and geostatistical economic evaluation NPV IRR and PP estimation of risk and software for evaluating mineral resources It subsequently describes key mineral resource exploitation methods open pit and underground mining and the mineral processing required to obtain saleable products crushing grinding sizing ore separation and concentrate dewatering also with some text devoted to tailings dams Lastly the book discusses the environmental impact of mining covering all the aspects of this very important topic from the description of diverse impacts to the environmental impact assessment EIA which is essential in modern mining projects

*Proceedings of the 27th International Symposium on Mine Planning and Equipment Selection - MPES 2018* Eleonora Widzyk-Capehart,Asieh Hekmat,Raj Singhal,2019-02-21 This proceedings book presents research papers discussing the latest developments and findings in the fields of mining machinery automation and environmental protection It includes contributions from authors from over 20 countries with backgrounds in computer science mining engineering technology and management and hailing from the government industry and academia It is of interest to scientists engineers consultants and government staff who are responsible for the development and implementation of innovative approaches techniques and technologies in the mineral industries Covering the latest advances in fundamental research it also appeals to academic researchers

*Mineral Resources* Mr. Rohit Manglik,2024-07-27

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**Ore Geology and Industrial Minerals** Anthony M. Evans,2013-07-03 Much new data and many new ideas have emerged in the area of oregeology and industrial minerals since publication of the second edition of this text in 1987 The overriding philosophy behind this new edition is the inclusion and integration of this new material within the established framework of the text The third edition is presented in the modern double column format Non metallic deposits of industrial and bulk materials are fully covered to meet the changing emphasis of courses in applied geology In addition chapter 1 has been considerably enlarged to include a section on mineral economics covering metals industrial minerals and bulk materials In this section the various aspects of economic exploitation of industrial and bulk materials are compared with those of metallic deposits Other major revisions and additions include a section on fluid inclusions expansion of the section on wall rock alteration expansion of

the material anisotropy studies and the inclusion of a section on hydraulic fracturing and seismic pumping      *Applied Mining Geology* Marat Abzalov, 2016-08-10 This book provides a detailed overview of the operational principles of modern mining geology which are presented as a good mix of theory and practice allowing use by a broad range of specialists from students to lecturers and experienced geologists The book includes comprehensive descriptions of mining geology techniques including conventional methods and new approaches The attributes presented in the book can be used as a reference and as a guide by mining industry specialists developing mining projects and for optimizing mining geology procedures Applications of the methods are explained using case studies and are facilitated by the computer scripts added to the book as Electronic Supplementary Material      *Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack* William A. Hustrulid, Mark Kuchta, Randall K. Martin, 2013-07-31 Building on the success of its 2006 predecessor this 3rd edition of *Open Pit Mine Planning and Design* has been both updated and extended ensuring that it remains the most complete and authoritative account of modern open pit mining available Five new chapters on unit operations have been added the revenues and costs chapter has been substantial      **Evaluation of Mineral Reserves** Andre G. Journel, Phaedon C. Kyriakidis, 2004-05-27 This book addresses the practice of geostatistical simulation to evaluation of mineral reserves prediction of recovered tonnages and mineral grades and the impact of mining dilution Such prediction is absolutely critical for mine planning and investment decisions yet it cannot be made on maps directly interpolated from present data Various dilution factors need to be introduced to account for the support effect mining unit volumes are vastly different from composite data unit volumes the information effect future selection of ore waste will be based on vastly different data than that presently available Geostatistical simulations allow a rigorous evaluation of these effects on reserves recovery These stochastic simulations have the potential to be for the mining industry what a wind tunnel is for aircraft design This book is written by two expert geostatisticians Journel is the pioneer of mining geostatistics and established academics

Proceedings of the 28th International Symposium on Mine Planning and Equipment Selection - MPES 2019 Erkan Topal, 2019-11-29 This conference proceedings presents the research papers in the field of mine planning and mining equipment including themes such as mine automation rock mechanics drilling blasting tunnelling and excavation engineering The papers presents the recent advancement and the application of a range of technologies in the field of mining industry It is of interest to the professionals who practice in mineral industry including but not limited to engineers consultants managers academics scientist and government staff      The Phosphorus Factbook Roland W. Scholz, Friedrich-Wilhelm Wellmer, Michael Mew, Gerald Steiner, 2025-09-12 This book provides a conceptual framework presenting a description and modelling of the regulating mechanisms of supply demand and supply demand dynamics sketches the most relevant classification systems of phosphorus deposits and outlines how they are related and how they should be improved to provide reliable comparable classification which is accepted by mining companies geological surveys science industry politicians and

the public For anticipating how the phosphate reserves are increasing by increasing market values of phosphorus we use the Cumulative Availability Curve CAC approach The presented data for supply and demand dynamics reveal that given our current knowledge due to the abundance of phosphate rock sufficient phosphorus supply will be feasible for at least 1000 years The book stresses desiderata in knowledge and technology development particularly for the reduction of losses and thus a decrease of negative environmental impacts and an improvement of the use efficiency The book is designed as a fact book For all essential statements e g Mineral phosphorus will be available for at least a millenium rather than 300 years The total use efficiency of phosphorus is less than 10% the reader will find solid scientific references or calculations which can be used by researchers mineral industry and business actors policymakers governmental institutions NGOs etc *Advances in Energy Science and Equipment Engineering* Shiquan Zhou, Aragona Patty, Shiming Chen, 2015-11-05 *Advances in Energy Equipment Science and Engineering* contains selected papers from the 2015 International Conference on Energy Equipment Science and Engineering ICEESE 2015 Guangzhou China 30-31 May 2015 The topics covered include Advanced design technology Energy and chemical engineering Energy and environmental engineering Energy science **Advances in Applied Strategic Mine Planning** Roussos Dimitrakopoulos, 2018-01-17 This book presents a collection of papers on topics in the field of strategic mine planning including orebody modeling mine planning optimization and the optimization of mining complexes Elaborating on the state of the art in the field it describes the latest technologies and related research as well as the applications of a range of related technologies in diverse industrial contexts **Brownfields IV** E. Beriatos, C. A. Brebbia, 2008-04-18 Rehabilitation of brownfields particularly those which are contaminated can be an expensive undertaking and requires not only technical solutions but the involvement of financial regulatory and community stakeholders Fundamental to this process is the analysis of the risks involved and the development of the appropriate strategies Those need to be weighted against the economic and social benefits of brownfield development to assess the general viability of the redevelopment In most cases the demand for development land drives the process forward while sometimes the rehabilitation is grounded on the wish to restore the landscape and the ecology of a region This volume contains the proceedings of the Fourth International Conference on Prevention Assessment Rehabilitation and Development of Brownfield Sites that was held in Cephalonia Greece in May 2008 Brownfield development is in most cases essential to attract new business to the locality and for the creation of healthy communities Therefore there is a great need for deeper research and study of all aspects of the problem technical institutional financial social and an exchange of ideas know how and experience among experts and scientists The proceedings have been arranged into the following sections Rehabilitation of Brownfields Development Issues Remediation Studies and Technologies Case Studies Risk Assessment and Management Community and Public Involvement **Being Nuclear** Gabrielle Hecht, 2014-08-29 The hidden history of African uranium and what it means for a state an object an industry a workplace to be nuclear Uranium from Africa has long been a major source of fuel for

nuclear power and atomic weapons including the bomb dropped on Hiroshima In 2003 after the infamous yellow cake from Niger Africa suddenly became notorious as a source of uranium a component of nuclear weapons But did that admit Niger or any of Africa's other uranium producing countries to the select society of nuclear states Does uranium itself count as a nuclear thing In this book Gabrielle Hecht lucidly probes the question of what it means for something a state an object an industry a workplace to be nuclear Hecht shows that questions about being nuclear a state that she calls nuclearity lie at the heart of today's global nuclear order and the relationships between developing nations often former colonies and nuclear powers often former colonizers Hecht enters African nuclear worlds focusing on miners and the occupational hazard of radiation exposure Could a mine be a nuclear workplace if as in some South African mines its radiation levels went undetected and unmeasured With this book Hecht is the first to put Africa in the nuclear world and the nuclear world in Africa By doing so she remakes our understanding of the nuclear age

### **Mining and the Environment** Karlheinz

Spitz, John Trudinger, 2019-08-20 The history of mining is replete with controversy of which much is related to environmental damage and consequent community outrage Over recent decades this has led to increased pressure to improve the environmental and social performance of mining operations particularly in developing countries The industry has responded by embracing the ideals of sustainability and corporate social responsibility Mining and the Environment identifies and discusses the wide range of social and environmental issues pertaining to mining with particular reference to mining in developing countries from where many of the project examples and case studies have been selected Following an introductory overview of pressing issues the book illustrates how environmental and social impact assessment such as defined in The Equator Principles integrates with the mining lifecycle and how environmental and social management aims to eliminate the negative and accentuate the positive mining impacts Practical approaches are provided for managing issues ranging from land acquisition and resettlement of Indigenous peoples to the technical aspects of acid rock drainage and mine waste management Moreover thorough analyses of ways and means of sharing non transitory mining benefits with host communities are presented to allow mining to provide sustainable benefits for the affected communities This second edition of Mining and the Environment includes new chapters on Health Impact Assessment Biodiversity and Gender Issues all of which have become more important since the first edition appeared a decade ago The wide coverage of issues and the many real life case studies make this practice oriented book a reference and key reading It is intended for environmental consultants engineers regulators and operators in the field and for students to use as a course textbook As much of the matter applies to the extractive industries as a whole it will also serve environmental professionals in the oil and gas industries Karlheinz Spitz and John Trudinger both have multiple years of experience in the assessment of mining projects around the world The combination of their expertise and knowledge about social economic and environmental performance of mining and mine waste management has resulted in this in depth coverage of the requirements for responsible and



sustainable mining

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