# AN INTRODUCTION TO CUT-OFF

BY JEAN-MICHEL RENDU

# GRADE ESTIMATION

SECOND EDITION

BLENDING CONSTRAINTS WASTE BLOCK CAVING STOCK CLOSURE GRADE-TONNAGE PRICES MINE CUT-OFF LEAR UNDERGROUND NPV SOCIOECONOMIC METAL EQUIVALENT OPEN PIT OPPORTUNITY POLYMETALLIC PROCESS PROPECLAMATION SELECTIVITY STOPES UTILITY NSR VAIRECOVERY NPV MILL CUT-OFF LEACHING BREAKEVEN STOCKPILES CLOSURE POLYMETALLIC UNDERGROUND NO SOCIO-ECONOMIC METAL EQUIVALENT OPEN PIT OPPORT POLYMETALLIC PROCESS PROFIT BLENDING CONSTRAINT WASTE BLOCK CAVING STOCKPILES CLOSURE GRADE-TOPPICES MINE CUT-OFF LEACHING UNDERGROUND NPV



# **Introduction Cut Off Estimation Second Edition**

Roland W. Scholz, Friedrich-Wilhelm Wellmer, Michael Mew, Gerald Steiner

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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 Variance Estimation Kirk Wolter, 2007-08-13 We live in the information age Statistical surveys are used every day to determine or evaluate public policy and to make important business decisions Correct methods for computing the precision of the survey data and for making inferences to the target population are absolutely essential to sound decision making Now in its second edition Introduction to Variance Estimation has for more than twenty years provided the definitive account of the theory and methods for correct precision calculations and inference including examples of modern complex surveys in which the methods have been used successfully The book provides instruction on the methods that are vital to data driven decision making in business government and academe It will appeal to survey statisticians and other scientists engaged in the planning and conduct of survey research and to those analyzing survey data and charged with extracting compelling information from such data It will appeal to graduate students and university faculty who are focused on the development of new theory and methods and on the evaluation of alternative methods Software developers concerned with creating the computer tools necessary to enable sound decision making will find it essential Prerequisites include knowledge of the theory and methods of mathematical statistics and graduate coursework in survey statistics Practical experience with real surveys is a plus and may be traded off against a portion of the requirement for graduate coursework This second edition reflects shifts in the theory and practice of sample surveys that have occurred since the content of the first edition solidified in the early 1980 s Additional replication type methods appeared during this period and have featured prominently in journal publications Reflecting these developments the second edition now includes a new major chapter on the bootstrap method of variance estimation This edition also includes extensive new material on Taylor series methods especially as they apply to newer methods of analysis such as logistic regression or the generalized regression estimator An introductory section on survey weighting has been added Sections on Hadamard matrices and computer software have been substantially scaled

back Fresh material on these topics is now readily available on the Internet or from commercial sources Kirk Wolter is a Senior Fellow at NORC Director of the Center for Excellency in Survey Research and Professor in the Department of Statistics University of Chicago He is a Fellow of the American Statistical Association and a Member of the International Statistical Institute He is a past president of the International Association of Survey Statisticians and a past chair of the Survey Research Methods Section of the American Statistical Association During the last 35 years he has participated in the planning execution and analysis of large scale complex surveys andhas provided instruction in survey statistics both in America and around the world Practical Channel Hydraulics, 2nd edition Donald W. Knight, Caroline Hazlewood, Rob Lamb, Paul G. Samuels, Koji Shiono, 2018-03-05 Practical Channel Hydraulics is a technical guide for estimating flood water levels in rivers using the innovative software known as the Conveyance and Afflux Estimation System CES AES The stand alone software is freely available at HR Wallingford's website www river conveyance net The conveyance engine has also been embedded within industry standard river modelling software such as InfoWorks RS and Flood Modeller Pro This 2nd Edition has been greatly expanded through the addition of Chapters 6 8 which now supply the background to the Shiono and Knight Method SKM upon which the CES AES is largely based With the need to estimate river levels more accurately computational methods are now frequently embedded in flood risk management procedures as for example in ISO 18320 Determination of the stage discharge relationship in which both the SKM and CES feature The CES AES incorporates five main components A Roughness Adviser A Conveyance Generator an Uncertainty Estimator a Backwater Module and an Afflux Estimator The SKM provides an alternative approach solving the governing equation analytically or numerically using Excel or with the short FORTRAN program provided Special attention is paid to calculating the distributions of boundary shear stress distributions in channels of different shape and to appropriate formulations for resistance and drag forces including those on trees in floodplains Worked examples are given for flows in a wide range of channel types size shape cover sinuosity ranging from small scale laboratory flumes Q 2 0 1s 1 to European rivers 2 000 m3s 1 and large scale world rivers 23 000 m3s 1 a 107 range in discharge Sites from rivers in the UK France China New Zealand and Ecuador are considered Topics are introduced initially at a simplified level and get progressively more complex in later chapters. This book is intended for post graduate level students and practising engineers or hydrologists engaged in flood risk management as well as those who may simply just wish to learn more about modelling flows in rivers Metric Pattern Cutting for Children's Wear and Babywear Winifred Aldrich, 2009-07-07 This fourth edition of Metric Pattern Cutting for Children's Wear and Babywear remains the standard text book but has three major improvements First the sections have been re-organised to reflect changes in producing and marketing children's clothes Today's popularity of easy fitting styles and knitted fabrics means that basic flat pattern cutting is used to construct the majority of children's wear and babywear and this type of cutting is therefore emphasised in this new edition Shaped blocks and garments cut to fit the body form are still included and are

placed in chapters covering some school uniform garments or more expensive fashion or formal clothes The book now clearly separates the sections useful to student beginners Parts One Two and Three and also offers more advanced or specialist sections for students who wish to pursue a career in children's wear or for designers working in the different manufacturing sectors of the trade The second change in this fourth edition is the introduction of colour coding to the sections this makes it easier to identify specific processes in the book and enhances the illustrations Finally the size charts have been revised to reflect the changes in body sizing The clear division of the boys and girls measurements in the charts has been in response to the way clothes are marketed and to co ordinate with European size charts Plus charts for heavier children have also been 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 millienium 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 Surface Mining, Second Edition Bruce A. Kennedy, Society for Mining, Metallurgy, and Exploration (U.S.),1990 This SME classic is both a reference book for the working engineer and a textbook for the mining student This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today topics range from production and productivity to technological developments and trends in equipment This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields including basic finance and economics logistics and pragmatic prospecting Readers will find material on all these topics and more The book s nine chapters include Introduction Exploration and Geology Techniques Ore Reserve Estimation Feasibility Studies and Project Financing Planning and Design of Surface Mines Mine Operations Mine Capital and Operating Costs Management and Organization and Case Studies The book is fully indexed **Clinical Pain Management Second** Edition: Practice and Procedures Harald Breivik, Michael Nicholas, William Campbell, Toby Newton-John, 2008-09-26 Largely reorganised and much expanded in this second edition Practice and Procedures brings together in a single volume

general methods of pain assessment and presents the wide range of therapies that can be provided by a range of health care disciplines Authored by a multidisciplinary team of experts chapters can stand alone for readers looking for a general overview of the methods of techniques for pain management available to them or work to complement chapters in the preceeding three volumes providing practical procedures and applications in the management of acute chronic and cancer pain The book is divided into three parts Part One covers the principles of measurement and diagnosis including history taking and examination the selection of pain measures diagnostic tests and novel imaging techniques Part Two discusses the full range of the rapeutic protocols available from pharmacological therapies through psychological techniques physical therapy and international procedures to techniques specific to pain assessment and management in paediatric patients Part Three provides information on planning conducting analysing and publishing clinical trials with invaluable guidance on the techniques of systematic review and meta analysis in pain research Part Four considers the role of multidisciplinary pain management teams their organization their place within different health care systems and how best to manage change when implementing such a service Part Five concludes the volume investigating the use of guidelines standards and quality improvement initiatives in the management of post operative pain and discussing the expert medicolegal report 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 guarrying 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 1906, Industrial World Elements of Random Walk and Diffusion Processes Oliver C. Ibe, 2013-09-23 Presents an important and unique introduction to random walk theory Random walk is a stochastic process that has proven to be a useful model in understanding discrete state discrete time processes across a wide

spectrum of scientific disciplines Elements of Random Walk and Diffusion Processes provides an interdisciplinary approach by including numerous practical examples and exercises with real world applications in operations research economics engineering and physics Featuring an introduction to powerful and general techniques that are used in the application of physical and dynamic processes the book presents the connections between diffusion equations and random motion Standard methods and applications of Brownian motion are addressed in addition to Levy motion which has become popular in random searches in a variety of fields The book also covers fractional calculus and introduces percolation theory and its relationship to diffusion processes With a strong emphasis on the relationship between random walk theory and diffusion processes Elements of Random Walk and Diffusion Processes features Basic concepts in probability an overview of stochastic and fractional processes and elements of graph theory Numerous practical applications of random walk across various disciplines including how to model stock prices and gambling describe the statistical properties of genetic drift and simplify the random movement of molecules in liquids and gases Examples of the real world applicability of random walk such as node movement and node failure in wireless networking the size of the Web in computer science and polymers in physics Plentiful examples and exercises throughout that illustrate the solution of many practical problems Elements of Random Walk and Diffusion Processes is an ideal reference for researchers and professionals involved in operations research economics engineering mathematics and physics The book is also an excellent textbook for upper undergraduate and graduate level courses in probability and stochastic processes stochastic models random motion and Brownian theory random walk theory and Innovative applications with artificial intelligence methods in neuroimaging data diffusion process techniques analysis Yao Wu,Feng Liu,Li Zhao,Yuan-Chiao Lu,2023-02-08 Geotechnical Aspects of Underground Construction in Soft Ground. 2nd Edition Mohammed Elshafie, Giulia Viggiani, Robert Mair, 2022-12-26 GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND comprises a collection of 112 contributions presented at the Tenth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground held in Cambridge United Kingdom 27 29th June 2022 This 2nd edition also includes four general reports on the symposium themes which give an overview of the papers submitted to the symposium covered in four technical sessions. The symposium is the latest in a series which began in New Delhi in 1994 and was followed by symposia in London 1996 Tokyo 1999 Toulouse 2002 Amsterdam 2005 Shanghai 2008 Rome 2011 Seoul 2014 and Sao Paulo 2017 This symposium was organised by the Geotechnical Research Group at the University of Cambridge under the auspices of the Technical Committee TC204 of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE Geotechnical Aspects of Underground Construction in Soft Ground includes contributions from more than 25 countries on the research design and construction of underground works in soft ground The contributions cover the following themes Field case studies Sensing technologies and monitoring for underground construction in soft ground Physical and numerical modelling of tunnels and deep excavations in soft ground

Seismic response of underground infrastructure in soft ground Design and application of ground improvement for underground construction Ground movements interaction with existing structures and mitigation measures Similar to previous editions GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND represents a valuable source of reference on the current practice of analysis design and construction of tunnels and deep excavations in soft ground The book is particularly aimed at academics and professionals interested in geotechnical and underground Challenges of Power Engineering and Environment Ke-fa Cen, Yong Chi, Jianhua Yan, 2009-03-27 This book is the proceedings of the International Conference on Power Engineering 2007 The fields of this book include power engineering and relevant environmental issues The recent technological advances in power engineering and related areas are introduced This book is valuable for researchers engineers and students majoring in power engineering in Education ,1994 Chemical Engineering Catalog ,1919 Wearable Biosensing in Medicine and Healthcare Kohji Mitsubayashi, 2024-01-03 This book contains chapters on wearable biomedical sensors and their assistive technologies for promoting behavioral change in medical and health care Part I reviews several wearable biomedical sensors based on biocompatible materials and nano and micro electromechanical systems MEMS technologies in the medical and dental fields Part II introduces the latest approaches to wearable biosensing using unique devices for various skin targets such as sweat interstitial fluid and transcutaneous gases Part III presents technologies supporting wearable sensors including soft and flexible materials manufacturing methods skin volatile marker imaging and energy harvesting devices This book is intended for graduate students academic researchers and professors that work in medical and healthcare research fields as well as industry professionals involved in the development of wearable and flexible sensing devices and measurement systems for human bio chemical sensing medicalmonitoring and healthcare services and for medical professionals and government officials who are driving behavior change in health care Dredging Engineering Sape A. Miedema, 2019-06-27 In dredging production estimating is carried out mainly with analytical physical models of the different dredging processes Slurry transport of settling slurries and cutting processes in sand clay and rock are already covered in two other books by the author Other processes like hopper sedimentation and erosion water jet fluidization cutter head spillage pump pipeline dynamics and clamshell dredging are covered in this Special Topics Edition New topics may be added in the near future

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