



NPV for the project by integrating the interdependency between these mechanisms.

→ **Simultaneous Optimisation** –

Optimises mine schedule, cut-off grade, stockpile, and optionally blending, in a single step.

→ **Blending** – Optional enhancement to the simultaneous optimisation module for final product or process input blend constraints.

Special Modules

Whittle's special modules build on the life-of-mine scheduling modules to allow extra value to be realised using techniques for blending, stockpile and cut-off optimisation, and block value calculations.

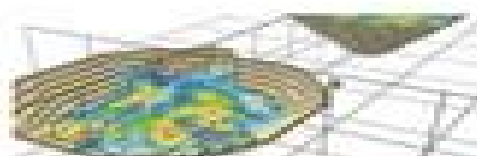
→ **Blending** – Blends scheduled material to final product or process input constraints. In conjunction with the Simultaneous Optimisation module, allows the simultaneous optimisation

of the mining schedule, final product or process input blend constraints, stockpiles and cut-offs for the mine.

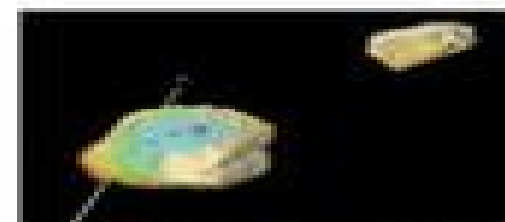
→ **Stockpiles and cut-offs** –

Optimises cut-off strategy and stockpile utilisation for standard life-of-mine schedules.

→ **Value Expressions** – Enhances the stockpiles and cut-offs module to work with partial recoveries and supports multiple methods for calculating block values and partial recoveries.



Much of Whittle's optimisation (mining input grades with the Stockpile module).



Simultaneous NPV or simultaneous optimisation with the Stockpile module.



Simultaneous Optimisation delivers global optimal NPV in a single step from multiple optimisation components applied sequentially.

Learn more about Gemcom Whittle: download customer case studies, product videos and a trial version by visiting www.gemcomsoftware.com/whittle. You can also contact us at whittle@gemcomsoftware.com for more information.

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User Manual For Gemcom Whittle

**Christoph Mueller, Winfred Assibey-
Bonsu, Ernest Baafi, Christoph
Dauber, Chris Doran, Marek
Jaszczuk, Oleg Nagovitsyn**

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Mine Planning and Equipment Selection 1995 J. Hadjigeorgiou,A.K. Mehmotra,R. Poulin,R.K. Singhal,1995-10-31

This text presents about 150 papers based on an international symposium on mine planning and equipment selection held in Canada in 1995 Coverage includes design and planning of surface and underground mines surface mining and the environment tailings disposal and slope stability analysis *SME Mining Engineering Handbook, Third Edition* Peter Darling,Society for Mining, Metallurgy, and Exploration (U.S.),2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today s practicing mining engineer It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts Within the handbook s 115 thought provoking chapters are current topics relevant to today s mining professional Analyzing how the mining and minerals industry will develop over the medium and long term why such changes are inevitable what this will mean in terms of challenges and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics from the decisions associated with how best to finance a single piece of high value equipment to the long term cash flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics automation acid rock drainage block caving optimization or process dewatering methods Examining in detail the methods and equipment available to achieve efficient predictable and safe rock breaking whether employing a tunnel boring machine for development work mineral extraction using a mobile miner or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest most efficient and most versatile extraction method to employ as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre exploration phase to end of mine issues and beyond and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders *APCOM XXV 1995* ,1995 **Project Management for Mining, 2nd Edition** Robin J. Hickson,Terry L. Owen,2022-02-01 Before You Put the First Shovel in the Ground This Book Could Be the Difference Between a Successful Mining Operation and a Money Pit Opening a successful new mine is a vastly complex undertaking entailing several years and millions to billions of dollars In today s world when environmental and labor policies regulatory compliance and the impact of the community must be factored in you cannot afford to make a mistake The Society for Mining Metallurgy Exploration has created this road map for you Written by two hands on in the trenches mining project managers with decades of experience bringing some of the world s most successful profitable mines into operation on time within budget and ethically Project Management for Mining gives you step by step instructions in every process you are likely to encounter

It is in use as course material in universities in Australia Canada Colombia Ghana Iran Kazakhstan Peru Russia Saudi Arabia South Africa the United Kingdom as well as the United States In addition more than 100 different mining companies have sent employees to attend seminars conducted by authors Robin Hickson and Terry Owen sessions all based around the material within this book In the years following the first edition the authors gratefully received a bevy of excellent suggestions from some 2 000 readers in over 50 countries This helpful reader feedback coupled with written evaluations from the more than 400 seminar attendees has been an unparalleled source of improvement for this new book This second edition is a significant accomplishment that includes 5 new chapters substantial updates to the original 34 chapters and 56 new or updated figures flowcharts and checklists that every project manager can use Mine Planning and Equipment Selection ,1998 **Application of Computers and Operations Research in the Mineral Industry** ,2002

Application of Computers and Operations Research in the Mineral Industry Sukumar Bandopadhyay,2002 Papers from a recent symposium present work in traditional areas of mineral exploration geostatistics production planning and scheduling as well as the emerging areas of information technology e commerce neural networks and geological information systems Contributors reflect the efforts of i *Mine Planning and Equipment Selection 1998* Raj K. Singhal,1998-01-01 This work details the findings of the 7th International Conference on Mine Planning and Equipment Selection of 1998 held in Calgary Topics include design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment **Mining goes Digital** Christoph Mueller,Winfred Assibey-Bonsu,Ernest Baafi,Christoph Dauber,Chris Doran,Marek Jaszczuk,Oleg Nagovitsyn,2019-05-22 The conferences on Applications for Computers and Operations Research in the Minerals Industry APCOM initially focused on the optimization of geostatistics and resource estimation Several standard methods used in these fields were presented in the early days of APCOM While geostatistics remains an important part information technology has emerged and nowadays APCOM not only focuses on geostatistics and resource estimation but has broadened its horizon to Information and Communication Technology ICT in the mineral industry Mining Goes Digital is a collection of 90 high quality peer reviewed papers covering recent ICT related developments in Geostatistics and Resource Estimation Mine Planning Scheduling and Dispatch Mine Safety and Mine Operation Internet of Things Robotics Emerging Technologies Synergies from other industries General aspects of Digital Transformation in Mining Mining Goes Digital will be of interest to professionals and academics involved or interested in the above mentioned areas Earth Science Software Directory ,1995

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