



Outside Dump

Typical Non-haul  
Road bench

Typical  
Bench Wall

Catch  
Berm

Typical  
Haul Road

Top of Main Ramp  
Out of Open Pit

Drill rig Drilling Out  
a New Pattern

Shovels loading  
haul trucks

Loaded Haul Truck Going to  
Run of Mine Stockpile

Drilled out pattern about to  
be charged with explosives

Empty haul truck  
returning to shovel

Typical Open Pit Mine

# Open Pit Mine Planning And Design

**Roman Wölfel**



## **Open Pit Mine Planning And Design:**

**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

Open Pit Mine Planning & Design W. A. Hustrulid, Mark Kuchta, 2006

Open Pit Mine Planning & Design: Fundamentals W. A. Hustrulid, Mark Kuchta, 1995-01

**Open pit mine planning & design. 1. Fundamentals** William Hustrulid, Mark Kuchta, 1995

*Open Pit Mine Planning and Design, Two Volume Set, Second Edition* William A. Hustrulid, Mark Kuchta, 2006-04-20 Outstanding textbook designed for courses in surface mine design open pit design geological excavation engineering and in advanced open pit mine planning and design The step by step introduction to mine design and planning enables a fast path approach to the matter by undergraduate and graduate students The excellent user friendly software guides the student through the planning and design steps and the drillhole data sets allows the student to practice the described principles in diverse mining properties case examples The large number of illustrative examples and case studies together with the exercises and the reference lists at the end of each chapter provide the student with all the material needed to study effectively the theory and application methods of open pit mine planning and design Volume 1 deals with the fundamental concepts involved in the planning and design of open pit mines Subjects covered are mine planning mining revenues and costs orebody description geometrical considerations pit limits production planning mineral resources and ore reserves and responsible mining Volume 2 deals with CSMine a user friendly mine planning and design software that was developed specifically to illustrate the principles involved when applied in practice It includes CSMine software a CSMine tutorial a user s guide and various orebody case examples Although intended as student course material many practitioners have used it as a practical reference guide

Open Pit Mine Planning and Design W Hustrulid Staff,

Open Pit Mine Planning and Design John T. Crawford, W. A. Hustrulid, 1979

Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack, Third Edition, 3rd Edition William Hustrulid, Mark Kuchta, Randall Martin, 2013 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 substantially revised and updated and the references have been brought fully up to date In addition the pack now also includes a fully working version of the MicroMODEL mine planning software package Volume 1 deals with the fundamental concepts involved in the planning and design of open pit mines Subjects covered are mine planning mining revenues and costs orebody description geometrical considerations pit limits production planning mineral resources and ore reserves responsible mining rock blasting rotary drilling shovel loading

haulage trucks and machine availability and utilization Volume 2 includes CSMine and MicroMODEL user friendly mine planning and design software packages developed specifically to illustrate the practical application of the involved principles It also comprises the CSMine and MicroMODEL tutorials and user s manuals and eight orebody case examples including drillhole data sets for performing a complete open pit mine evaluation Open Pit Mine Planning and Design is an excellent textbook for courses in surface mine design open pit design geological and excavation engineering and in advanced open pit mine planning and design The principles described apply worldwide In addition the work can be used as a practical reference by professionals The step by step approach to mine design and planning offers a fast path approach to the material for both undergraduate and graduate students The outstanding software guides the student through the planning and design steps and the eight drillhole data sets allow the student to practice the described principles on different mining properties three copper properties three iron properties and two gold properties The well written text the large number of illustrative examples and case studies the included software the review questions and exercises and the reference lists included at the end of each chapter provide the student with all the material needed to effectively learn the theory and application of open pit mine planning and design

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Hustrulid, Mark Kuchta, 2006 *An Application of Risk Based Design in Open Pit Mine Planning* Leilani Brits, 2013

**Application of Software Systems for Open Pit Mine Planning and Design in Ghana** Anthony Armstrong Mensah, 1999 **Open Pit Mine Planning** Ursula Thorley, 2012 In the last decade mineable oil sands production in Canada has grown rapidly Constraints on the planning and design processes employed by surface mining oil sands operations vary in distinct ways from other commodities mined by both hard and soft rock open pit methods The unique waste handling needs including tailings disposal of contemporary oil sands mining requires specific planning considerations It is the purpose of this research to analyze and document a conventional hard rock metal mine planning system and contrast this with the unconventional mine planning system used by oil sands mines Systems activity models of both the conventional and unconventional systems are developed in support of documenting and contrasting the two systems Constraints unique to oil sands mine planning are identified and their impact on the oil sands mine planning system are documented The impacts of challenging waste handling and storage requirements and a uniquely prescriptive regulatory environment defining mineable ore are identified as key constraints The research concludes with a proposal for a new planning system to better support the planning of oil sands mines The proposed system respects the unique waste management considerations in oil sands planning and revisits the current regulatory approach to ensuring resource recovery The proposed system is compatible with traditional approaches to economic analysis in open pit planning and with emerging best practices to manage technical and economic uncertainty improve project optimization and develop robust mine plans Open Pit Mine Planning & Design: CSMine software package and Orebody case examples W. A. Hustrulid, 2006

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