

Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack, Third Edition

By William A. Hustrulid, Mark Kuchta, Randall K. Martin

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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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Editorial Review

Review

The two volumes [...] make up a comprehensive guidebook of all aspects related to mine planning and design and are an excellent reference for aspects such as the economic evaluation of ‘surface’ ore deposits, statistical analysis of mineralization data, open-pit mining procedures and issues such as sustainability. Each chapter ends with a detailed list of hundreds of references and bibliography, followed by a series of ‘Review combined questions and exercises’ that would assist any mining engineering lecturer in setting assignments, tests and examinations. As a handbook for any aspiring mining engineer, there is no doubt that this is a very valuable document and package.

Phil Paige-Green, Quarterly Journal of Engineering Geology and Hydrogeology, Vol. 48, 2015, pp. 264

Appropriate for diverse audiences, this book is an outstanding technical reference that provides the reader with an understanding of the fundamental principles associated with the design and planning of modern surface open-pit mines. The book is well-written and addresses topical subjects in a manner highly conducive for use in undergraduate and graduate education, as well as by a wide range of professionals interested in the subject. The text emphasizes the influence of economic and environmental considerations in mine design and planning, where applied engineering principles and approaches are effectively introduced through numerous examples and exercises. While the book is ideally suited for students in mineral related disciplines, seasoned professionals will also find it extremely useful as a technical reference. Overall, it is an excellent book that successfully introduces the interdisciplinary aspects of surface design and planning in a straight-forward, easy to understand manner that challenges the reader to think in a broader context about the subject.

Hugh B. Miller, Ph.D., Associate Professor, Mining Engineering Department, Colorado School of Mines, Golden, CO, USA

Over the years, attempts have been made to capture the essence of open pit engineering. Past volumes have been organized by assembling papers and chapters written by experts and practitioners. These works contain valuable information but often digress into specialized areas and frequently repeat introductory material. Students who are trying to put all this information into a practical context find the repetition tedious and often are overwhelmed by esoteric subtopics. In this two-volume treatise, Dr.Hustrulid and his coauthors have captured the essence of ore body modeling, open pit planning, unit operations, and responsible mining in an organized and succinct manner. This work is especially valuable for mining students who are eager to learn about open pit mining and for the faculty tasked to teach the topic. The software included with the volumes provides an excellent introduction to computerized planning and a logical transition to more complicated programs.

M. K. McCarter, Ph.D., P.E., Professor of Mining Engineering, Malcolm N. McKinnon Endowed Chair, University of Utah, Salt Lake City, UT, USA

Open Pit Mine Planning and Design is an ideal textbook for courses in surface mine design, open pit design, geological and excavation engineering, and in advanced open pit mine planning and design, and can also be a priceless reference resource for active professionals around the world.

About the Author

William Hustrulid studied Minerals Engineering at the University of Minnesota. After obtaining his Ph.D. degree in 1968, his career has included responsible roles in both mining academia and in the mining business itself. He has served as Professor of Mining Engineering at the University of Utah and at the Colorado School of Mines and as a Guest Professor at theTechnical University in Luleå, Sweden. In addition, he has held mining R&D positions for companies in the USA, Sweden, and the former Republic of Zaire. He is a Member of the U.S. National Academy of Engineering (NAE) and a Foreign Member of the Swedish Royal Academy of Engineering Sciences (IVA). He currently holds the rank of Professor Emeritus at the University of Utah and manages Hustrulid Mining Services in Spokane,Washington.

Mark Kuchta studied Mining Engineering at the Colorado School of Mines and received his Ph.D. degree from the Technical University in Luleå, Sweden. He has had a wide-ranging career in the mining business. This has included working as a contract miner in the uranium mines of western Colorado and 10 years of experience in various positions with LKAB in northern Sweden. At present, Mark is an Associate Professor of Mining Engineering at the Colorado School of Mines. He is actively involved in the education of future mining engineers at both undergraduate and graduate levels and conducts a very active research program. His professional interests include the use of high-pressure waterjets for rock scaling applications in underground mines, strategic mine planning, advanced mine production scheduling and the development of user-friendly mine software.

Randall K. “Randy” Martin studied Metallurgical Engineering at the Colorado School of Mines and later received a Master of Science in Mineral Economics from Mines. He has over thirty years of experience as a geologic modeler and mine planner, having worked for Amax Mining, Pincock, Allen & Holt, and Tetratech. Currently he serves as President of R.K. Martin and Associates, Inc. His company performs consulting services, and also markets and supports a variety of software packages which are used in the mining industry. He is the principal author of the MicroMODEL® software included with this textbook.

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