



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

*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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