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Autore	Rendu Jean-Michel <1944->
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Chapter 6: CUT-OFF GRADE AND MINE PLANNING; Open Pit Mine: Economic Valuation of a Pushback; Underground Mine: Economic Valuation of a Stope; Similarities Between Open Pit and Underground Mine Planning; Block and Panel Caving Relationship Between Mine Selectivity, Deposit Modeling, Ore Control, and Cut-off Grade Chapter 7: WHICH COSTS SHOULD BE INCLUDED IN CUT-OFF GRADE CALCULATIONS?; General Considerations; How Specific Costs Influence Cut-off Grade Calculations; Other Costs and Benefits; Chapter 8: BLENDING STRATEGY; Blending Two Material Types; Blending Three Material Types; Blending to Maximize Tonnage; Remarks Concerning an Increasingly Complex Blending Problem; Chapter 9: CLOSING REMARKS; APPENDIX A; Example 1. Net Present Value of Constant Cash Flow: Proof of Formula Example 2. Net Present Value of Perpetuity Cash Flow: Proof of Formula Example 3. Opportunity Cost of Mining a Peripheral Deposit; Example 4. Simplified Equation to Estimate Opportunity Cost: Verification of First-Order Approximation; Example 5. Opportunity Cost of Not Using the Optimal Cut-off Grade in a Copper Mine; Example 6. Stockpiling and Cut-off Determination in a Copper Mine; Example 7. Properties of Constant-Metric-Tons Curves in Blending Diagrams; LIST OF SYMBOLS; BIBLIOGRAPHY; INDEX; ABOUT THE AUTHOR; Back Cover

Sommario/riassunto

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.
