

Mechanical Excavation in Mining and Civil Industries

By Nuh Bilgin, Hanifi Copur, Cemal Balci

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The secret to streamlined scheduling of mining and civil engineering projects is a solid understanding of the basic concepts of rock cutting mechanics. Comparing theoretical values with experimental and real-world results, **Mechanical Excavation in Mining and Civil Industries** thoroughly explains various rock cutting theories developed for chisel, conical, disc, and button cutters. The authors provide numerical examples on the effect of independent variables on dependent variables, as well as numerical and solved examples from real-life mining and civil engineering projects using equipment such as:

- Hard- and soft-ground tunnel boring machines (TBMs)
- Roadheaders
- Shearers
- Ploughs
- Chain saws
- Raise borers
- Impact hammers
- Large-diameter drill rigs
- Microtunnel boring machines

This book assists students and practicing engineers in selecting the most appropriate machinery for a specific job and predicting machine performance to ensure efficient extraction, and offers background information on rock cutting mechanics and different mechanical miners.

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Editorial Review

About the Author

Turkish Tunneling Society chairman **Nuh Bilgin** holds a B.Sc. from Istanbul Technical University (ITU) and a Ph.D from University of Newcastle Upon Tyne, UK. He joined the ITU Mining Engineering Department in 1978 and was appointed full-time professor in 1989. After serving as visiting professor for Colorado School of Mines, USA and Witwatersrand University, SA, he returned to ITU. He has published over 100 mechanized mining and tunneling technology papers.

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