



Applied Geotechnology: A Text for Students and Engineers on Rock Excavation and Related Topics (Pergamon International Library of Science, Technology, Engineering & Social Studies)

A. Roberts

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Applied Geotechnology deals with rock excavation and related topics such as the stability of soil and rock slopes, earthquakes, and earthquake engineering. Some basic ideas and fundamentals that are applicable to specific aspects of geotechnical engineering are described. Blasting technology is also discussed, along with water supply, oil and gas storage, the disposal of radioactive wastes, and the effects of mining on the surface environment.

This book is comprised of 15 chapters and begins with a look at rock excavation by blasting, with emphasis on the blasting action of an explosive charge in solid material as well as the process of detonation in a high explosive. Vibrations and noise generated by blasting and other engineering processes are also considered, along with the techniques used in rock and earth excavation such as down-the-hole drilling, rotary rock drilling, roller-bit drilling, and rotary-percussive rock drilling. The following chapters focus on rock ripping and cutting; rapid tunnelling; the environmental and engineering aspects of the movement and control of groundwater; underground storage of oil and gas; pillar support of underground excavations; and ground-reinforcement techniques. The final chapter is devoted to ground movement, caving, and subsidence. This monograph is written primarily for engineers and is intended as a class text for first- and second-year students of geological, mining, and civil engineering at university and technical college.

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