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Although Rock Mechanics addresses many of the rock mechanics issues which arise in underground mining engineering, it is not a text exclusively for mining applications.

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Rock Mechanics Frontispiece Post-pillar mining in a jointed and faulted rock mass at the Dolphin Mine, King Island, Australia (photograph by permission of King Island Scheelite and CSIRO Division of Geomechanics).

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The primary operations required in underground are rock breakage and material handling. If the target is sufficiently soft (e.g., coal and rock salt), mechanical excavation utilizing continuous miners, shearers, ploughs/plows, and so on, can be employed.

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Rock mechanics instruments have been providing data in a backfilled room-and-pillar test section of the Buick Mine near Boss, Missouri, USA, for nearly 16 years. Host rock instruments include borehole ... underground iron ore deposit to estimate drainage time and determine interaction between stopes. Donovan et al. [10]

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rock mechanics have played key roles in the construction projects: for site investigation, designing, and construction stages, for example. The first underground oil storage project in Korea was K-1 initiated in 1975.

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Engineering rock mechanics is the discipline used to design structures built in rock. These structures encompass building foundations, dams, slopes, shafts, tunnels, caverns, hydroelectric schemes, mines, radioactive waste repositories and geothermal energy projects: in short, any structure built on or in a rock mass.

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