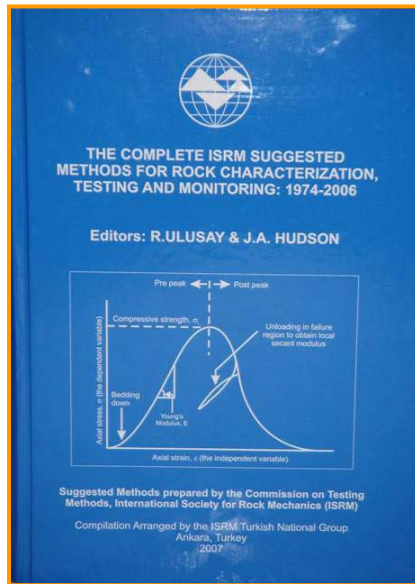


INTERNATIONAL SOCIETY FOR ROCK MECHANICS (ISRM) “THE COMPLETE ISRM SUGGESTED METHODS FOR ROCK CHARACTERIZATION, TESTING AND MONITORING: 1974-2006”



Edited by
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Aims and Scope

Since 1974, and through its Commission on Testing Methods, the ISRM has generated a succession of Suggested Methods (SMs) covering a wide range of subjects. The first collection of the Suggested Methods of the ISRM was edited by Professor Ted Brown and published by Pergamon Press in 1981. Because this book is now out of print and many new SMs have been produced since then, the new collection was prepared for the use of rock mechanics teachers, researchers and rock engineering practitioners. The collection of SMs in this book is the complete set of SMs from 1974 to 2006 inclusive.

Contents

The book consists of 4 parts including a total of 40 Suggested Methods.

• Site Characterization

The quantitative description of discontinuities in rock masses, geophysical logging of boreholes.

• Laboratory Testing

Petrographic description of rocks, determination of water content, porosity, density and related properties and swelling and slake-durability index properties, hardness and abrasiveness of rocks, sound velocity, point load strength, indentation hardness index, block punch strength index, uniaxial compressive strength and deformability of rock materials, strength of rock

materials in triaxial compression, shear strength, tensile strength of rock materials, laboratory testing of argillaceous swelling rocks, laboratory testing of swelling rocks, complete stress-strain curve for intact rock in uniaxial compression, determination of fracture toughness of rock., mode I fracture toughness using cracked chevron notched Brazilian disc specimens.

• Field Tests

Deformability tests (determination of in-situ deformability of rock, deformability determination using a large flat jack technique, flexible dilatometer and stiff dilatometer), in-situ stress measurements (rock stress determination, stress measurement using the CCBO technique, rock stress estimation: strategy for rock stress estimation, overcoring methods, hydraulic fracturing and/or hydraulic testing of pre-existing fractures, quality control of rock stress estimation), geophysical testing (seismic testing within and between boreholes, land geophysics in rock engineering, borehole geophysics in rock engineering), and other tests (rapid filed identification of swelling and slaking rocks, large scale sampling and triaxial testing of jointed rock).

• Monitoring

Monitoring rock movements using borehole extensometer, inclinometer and tiltmeter, pressure monitoring using hydraulic cells, surface monitoring of movements across discontinuities, blast vibration monitoring.

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