ISRM SUGGESTED METHODS
see also http://www.isrm.net/gca/?id=177

1- SITE CHARACTERIZATION
SM for Quantitative Description of Discontinuities in Rock Masses - 1978
SM for Geophysical Logging of Boreholes – 1981:
   Part 1  Technical Introduction
   Part 2  SM for Single-Point Resistance and Conventional Resistivity Logs
   Part 3  SM for the Spontaneous Potential Log
   Part 4  SM for the Induction Log
   Part 5  SM for the Gamma-Ray Log
   Part 6  SM for the Neutron Log
   Part 7  SM for the Gamma-Gamma Density Log
   Part 8  SM for the Acoustic or Sonic Log
   Part 9  SM for the Caliper Log
   Part 10 SM for the Temperature Log
   Part 11 References

2 - LABORATORY TESTING
SM for Petrographic Description of Rocks - 1978
SM for Determining Water Content, Porosity, Density, Absorption and Related Properties and Swelling and Slake-Durability Index Properties - 1977
   Part 1 - SM for Determining Water Content, Porosity, Density, Absorption and Related Properties:
     SM for Determination of the Water Content of a Rock Sample
     SM for Porosity/Density Determination Using Saturation and Caliper Techniques
     SM for Porosity/Density Determination Using Saturation and Buoyancy Techniques
     SM for Porosity/Density Determination Using Mercury Displacement and Grain Specific Gravity Techniques
     SM for Porosity/Density Determination Using Mercury Displacement and Boyle’s Law Techniques
     SM for Void Index Determination Using the Quick Absorption Technique
   Part 2 - SM for Determining Swelling and Slake-Durability Index Properties:
     SM for Determination of the Swelling Pressure Index Under Conditions of Zero Volume Change
     SM for Determination of the Swelling Strain Index for a Radially Confined Specimen With Axial Surcharge
     SM for Determination of the Swelling Strain Developed in an Unconfined Rock Specimen
     SM for Determination of the Slake-Durability Index
SM for Determining Hardness and Abrasiveness of Rocks – 1978:
   Part 1  – Introduction and Review
   Part 2  - SM for Determining the Resistance to Abrasion of Aggregate by Use of the Los Angeles Machine
   Part 3  - SM for Determination of the Schmidt Rebound Hardness
SM for Determining the Shore Hardness Value for Rock - 2006
SM for Determining Sound Velocity - 1978
SM for Determining Point Load Strength - 1985
SM for Determining Block Punch Strength Index (BPI) - 2001
SM for Determining the Uniaxial Compressive Strength and Deformability of Rock Materials – 1979:
   Part 1  SM for Determination of the Uniaxial Compressive Strength of Rock Materials
   Part 2  SM for Determining Deformability of Rock Materials in Uniaxial Compression
SM for Determining the Strength of Rock Materials in Triaxial Compression - 1978

SM for Determining Shear Strength – 1974:
  Part 1 SM for In Situ Determination of Direct Shear Strength
  Part 2 SM for Laboratory Determination of Direct Shear Strength
  Part 3 SM for In Situ Determination of Shear Strength Using a Torsional Shear Test

SM for Determining Tensile Strength of Rock Materials – 1978:
  Part 1 SM for Determining Direct Tensile Strength
  Part 2 SM for Determining Indirect Tensile Strength by the Brazil Test

SM for Laboratory Testing of Argillaceous Swelling Rock – 1989:
  Part 1 SM for Sampling, Storage and Preparation of Test Specimens
  Part 2 SM for Determining Maximum Axial Swelling Stress
  Part 3 SM for Determining Axial and Radial Free Swelling Strain
  Part 4 SM for Determining Axial Swelling Stress as a Function of Axial Swelling Strain

SM for Laboratory Testing of Swelling Rocks – 1999:
  Part 1 SM for Sampling, Storage and Preparation of Test Specimens
  Part 2 SM for Determining Axial Swelling Stress
  Part 3 SM for Determining Axial and Radial Free Swelling Strain
  Part 4 SM for Determining Axial Swelling Stress as a Function of Axial Swelling Strain

SM for the Complete Stress-Strain Curve for Intact Rock in Uniaxial Compression - 1999

SM for Determining the Fracture Toughness of Rock – 1988:
  Part 1 SM for Determining Fracture Toughness Using Chevron Bend Specimens
  Part 2 SM for Determining Fracture Toughness Using Short Rod Specimens

SM for Determining Mode I Fracture Toughness Using Cracked Chevron Notched Brazilian Disc (CCNBD) Specimens - 1995

3 - FIELD TESTING

3.1 DEFORMABILITY TESTS

SM for Determining In Situ Deformability of Rock – 1979:
  Part 1 - SM for Deformability Determination Using a Plate Test (Superficial Loading)
  Part 2 - SM for Field Deformability Determination Using a Plate Test Down a Borehole
  Part 3 - SM for Measuring Rock Mass Deformability Using a Radial Jacking Test

SM for Deformability Determination Using a Large Flat Jack Technique 1986
SM for Deformability Determination Using a Flexible Dilatometer – 1987
SM for Deformability Using a Flexible Dilatometer with Volume Change Measurements
SM for Deformability Using a Flexible Dilatometer with Radial Displacement Measurements
SM for Deformability Determination Using a Stiff Dilatometer - 1996

3.2 IN SITU STRESS MEASUREMENTS

SM for Rock Stress Determination - 1987
SM for Rock Stress Determination Using a Flatjack Technique
SM for Rock Stress Determination Using the Hydraulic Fracturing Technique
SM for Rock Stress Determination Using a USBM-Type Drillhole Deformation Gauge
SM for Rock Stress Determination Using a CSIR- or CSIRO-Type Cell with 9 or 12 Strain Gauges
SM for In Situ Stress Measurement Using the Compact Conical-Ended Borehole Overcoring (CCBO) Technique - 1999

SM for Rock Stress Estimation – 2003:
  Part 1: - Strategy for Rock Stress Estimation
  Part 2: - Overcoming Methods
  Part 3: - Hydraulic Fracturing (HF) and/or Hydraulic Testing of Pre-existing Fractures (HTPF)
  Part 4: - Quality Control of Rock Stress Estimation

3.3 GEOPHYSICAL TESTING
SM for Seismic Testing Within and Between Boreholes – 1988:
   Part 1 - Technical Introduction
   Part 2 - SM for Seismic Testing Within a Borehole
   Part 3 - SM for Seismic Testing Between Boreholes
   Part 4 - SM for Seismic Tomography
SM for Land Geophysics in Rock Engineering – 2004:
   Seismic Refraction
   Shallow Seismic Reflexion
   Electrical
   Electromagnetic
   Ground Penetration Radar
   Gravity
   Radiometric
SM for Borehole Geophysics in Rock Engineering – 2006:
   Velocity Measurements Along a Borehole
   Electric and Electromagnetic Logging
   Nuclear Logging
   Vertical Seismic Profiling
   Seismic Tomography
   Resistivity Tomography
   Seismic Ahead of a Tunnel Face

3.4 OTHER TESTS
SM for Rapid Field Identification of Swelling and Slaking Rocks - 1994
SM for Large Scale Sampling and Triaxial Testing of Jointed Rock – 1989

3.5 BOLTING AND ANCHORING TESTS
SM for Rockbolt Testing – 1974:
   Part 1  SM for Determining the Strength of a Rockbolt Anchor (Pull Test)
   Part 2  SM of Determining Rockbolt Tension Using a Torque Wrench
   Part 3  SM for Monitoring Rockbolt Tension Using Load Cells
SM for Rock Anchorage Testing - 1985

4 - MONITORING
SM for Monitoring Rock Movements Using Borehole Extensometers - 1978
SM for Monitoring Rock Movements Using Inclinometers and Tiltmeters – 1977:
   Part 1  SM for Monitoring Rock Movements Using a Probe Inclinometer
   Part 2  SM for Monitoring Rock Movements Using Fixed-in-Place Inclinometers
   Part 3  SM for Monitoring Rock Movements Using Tiltmeters
SM for Pressure Monitoring Using Hydraulic Cells - 1980
SM for Surface Monitoring of Movements Across Discontinuities - 1984
SM for Monitoring Movements Across Discontinuities Using Glass Plates
SM for Monitoring Movements Across Discontinuities Using Pins and a Tape
SM for Monitoring Movements Across Discontinuities Using a Portable Mechanical Gauge
SM for Monitoring Movements Across Discontinuities Using a Remote Reading Electrical Jointmeter
SM for Blast Vibration Monitoring - 1992
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