

- 806047 INVESTIGATION OF COHESIONLESS SOILS IN A TRIAXIAL APPARATUS WITH AN OPTICAL STRAIN MEASUREMENT SYSTEM
Khristoforov, V S; Karaganov, V N
Soil Mech Found Engng, V16, N3, May-June 1979, P135-140

- 806048 STRESS AND STRAIN OF SOIL WITH NONLINEAR CHARACTERISTICS IN AXISYMMETRIC PLANE STRAIN
Khristoforov, V S; Zadvornov, G A
Soil Mech Found Engng, V15, N6, Nov-Dec 1978, P406-410

- 806049 DILATOMETER TESTS IN THE STUDY OF THE DEFORMABILITY OF ROCK MASSES
Charrua-Graca, J G
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P73-76. Publ Rotterdam, A A Balkema, 1979

- 806050 MONITORING LAYOUT FOR CONSIDERATION OF THE SCALE-EFFECT
Habenicht, H
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P189-193. Publ Rotterdam, A A Balkema, 1979

Shows an arrangement for determining the Young's modulus of rock masses of different sizes.

- 806051 ANALYSIS OF SEVERAL BOREHOLE TECHNIQUES FOR DETERMINING STRESS AND MODULUS
Hustrulid, W
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P249-258. Publ Rotterdam, A A Balkema, 1979

Gives analyses of the CSM cell, the Goodman Jack and the CSIR Doorstopper.

- 806052 DETERMINATION OF THE ELASTIC CONSTANTS OF ANISOTROPIC BODIES BY DIAMETRAL COMPRESSION TESTS
Loureiro-Pinto, J
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P359-363. Publ Rotterdam, A A Balkema, 1979

- 806053 ON THE STRUCTURE OF STRESS-STRAIN RATE RELATIONS FOR TIME INDEPENDENT DEFORMATIONS IN CRYSTALLINE ROCKS
Muhlhaus, H B
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P447-454. Publ Rotterdam, A A Balkema, 1979

Time dependent behaviour

- 806054 REGULARITIES OF THE DEFORMATION OF SWELLING SOILS WITH TIME
Meschyan, S R; Malakyan, R P
Soil Mech Found Engng, V16, N1, Jan-Feb 1979, P37-44

Presents the results of creep and shear tests on unsaturated and saturated samples of bentonite clay. The data are shown graphically and expressions developed to relate creep and water content.

- 806055 SETTLEMENTS OF EXPERIMENTAL PLATES IN PLASTIC-FROZEN SOILS
Vyalov, S S
Soil Mech Found Engng, V15, N5, Sept-Oct 1978, P328-334

Results of lab and field tests over a long period are summarised and developed theoretically to show time dependence.

Physico-chemical properties

- 806056 INFLUENCE OF SHALE CONDUCTIVITIES ON THE ELECTRICAL CONDUCTIVITY OF LOW-PERMEABILITY ROCKS
Volk, I J; Carroll, H B; Raible, C J
J Pet Technol, V32, N5, May 1980, P865-867

- 806057 FREQUENCY DEPENDENCE OF CAPACITANCE OF COAL AND ROCK SAMPLES
Srivastava, S C; Kumar, S
Indian J Pure Appl Phys, V17, N6, June 1979, P397-398

- 806058 OBSERVATION DATA ON MOISTURE-TEMPERATURE REGIME OF FOUNDATION SOILS
Anpilov, V E; Lugovoi, V P
Soil Mech Found Engng, V16, N2, March-April 1979, P74-77

- 806059 QUANTITATIVE ANALYSIS OF THE RELATION BETWEEN THE MAIN THERMOPHYSICAL CHARACTERISTICS OF FROZEN SOILS
Konovvalov, A A
Soil Mech Found Engng, V16, N1, Jan-Feb 1979, P23-27

- 806060 OBSERVATIONS OF PREFRACTURE PHENOMENA IN ROCK AND CERAMIC MATERIALS
Hoenig, S A; Itani, F S
Proc 4th Congress International Society for Rock Mechanics, Montreux, 2-8 Sept 1979, Vol 2, P243-248. Publ Rotterdam, A A Balkema, 1979

Reports observations of electrical currents and ion/electron emission signals that are developed as rock and ceramic materials are stressed. It was found that electrical surface currents could be used to predict the areas of ultimate failure and to determine the residual stress in drill core specimens.

Permeability and capillarity

See also: 806031

Compressibility, swelling and consolidation

- 806061 SIMPLE MERCURY VOLUMETER/SWELL INDICATOR. TECHNICAL NOTE
Ramana, Y V
Int J Rock Mech Min Sci, V17, N3, June 1980, P173-176

- 806062 NEW LOOK AT COMPACTION PROCESSES IN FILLS
Hodek, R J; Lovell, C W
Bull Assoc Engng Geol, V16, N4, 1979, P487-499