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Autore	Wittke Walter
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4.5.6 Conclusions; 5 Rock Salt; 5.1 Introduction; 5.2 Stress-Strain Behavior; 5.3 Validation of Model; 6 Permeability and Seepage Flow; 6.1 Introduction; 6.2 Porous Intact Rock; 6.2.1 Porosity; 6.2.2 Darcy's Law and Permeability; 6.3 Discontinuities; 6.3.1 Laminar Flow; 6.3.2 Turbulent Flow; 6.4 Rock Mass; 6.4.1 Discrete Model; 6.4.2 Homogeneous Model; 6.4.3 Seepage Force and Hydrostatic Uplift; 7 Coupling of Stress-Strain Behavior and Seepage Flow; 7.1 Introduction; 7.2 Permeability of a Discontinuity as a Function of Stress; 7.2.1 Permeability of a Discontinuity as a Function of Normal Stress; 7.2.2 Permeability of a Discontinuity as a Function of Normal Compressive Stress and Shear Stress; 7.3 Rock Mass; 7.3.1 Discrete Model; 7.3.2 Homogeneous Model; 8 Swelling Rock; 8.1 Introduction; 8.2 Swelling Mechanisms; 8.3 Water Uptake; 8.4 Swelling; 8.5 Coupled Model; 8.6 Characteristic Parameters of the Gypsum Keuper; 8.7 Gypsum Keuper in its Natural Condition; 8.8 Calibration of Model; 9 Rock Mass In-Situ Stress; 9.1 Introduction; 9.2 Stresses due to Gravity; 9.2.1 Horizontal Ground Surface; 9.2.2 Influence of Topography; 9.3 Tectonic Stresses; 9.4 Stresses due to Pre-loading and Subsequent Unloading; 9.5 Residual Stresses; 9.6 Effect of Rock Mass Inhomogeneity; Part B: Analysis and Design Methods; 10 Finite Element Method (FEM); 10.1 Introduction; 10.2 The Principle of FEM; 10.3 Element Types; 10.3.1 Three-Dimensional Isoparametric Elements; 10.3.2 Truss Elements; 10.3.3 Spring Elements; 10.4 Computation Section

Sommario/riassunto

This book focuses on the fundamentals of rock mechanics as a basis for the safe and economical design and construction of tunnels, dam foundations and slopes in jointed and anisotropic rock. It is divided into four main parts: - Fundamentals and models- Analysis and design methods- Exploration, testing and monitoring- Applications and case histories. The rock mechanical models presented account for the influence of discontinuities on the stress-strain behavior and the permeability of jointed rock masses. Th

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