1. Record Nr. UNISALENTO991003213679707536

Autore	Singh, Bhawani
Titolo	Rock mass classification [e-book] : a practical approach in civil engineering / Bhawani Singh & R.K. Goel
Pubbl/distr/stampa	Amsterdam ; New York : Elsevier, 1999
ISBN	9780080430133 0080430139
Descrizione fisica	xiii, 267 p. : ill. ; 25 cm
Altri autori (Persone)	Goel, R. K., 1960-
Disciplina	624.151
Soggetti	Engineering geology Rocks - Classification Rock mechanics Underground construction Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and indexes
Nota di contenuto	Chapter headings and selected papers: Philosophy of Quantitative Classifications. Present day practice. Shear Zone Treatment in Tunnels and Foundations. Treatment for tunnels. Rock Material. Uniaxial compression. Rock Quality Designation. Weighted joint density. Terzaghi's Rock Load Theory. Modified Terzaghi's theory for tunnels and caverns. Rock Mass Rating (RMR). Applications of RMR. Prediction of Ground Conditions for Tunnelling. Empirical approach. Rock Mass Quality (Q) - System. The Q-system. Rock Mass Number. Inter-relation between Q and RMR. Rock Mass Index. Scale effect. Rate of Tunnelling. Classification of ground/job conditions for rate of tunnelling. Support System in Caverns. Precautions. Strength Enhancement of Rock Mass in Tunnels. Residual strength parameters. Strength of Discontinuities. Shear strength of joints. Shear Strength of Rock Masses in Slopes. Mohr-Coulomb strength parameters. Types of Rock Slope Failures. 3D wedge failure. Slope Mass Rating (SMR). Support measures. Landslide Hazard Zonation. A case history. Allowable Bearing Pressure for Building Foundations. Allowable bearing pressure. Method of Excavation. Excavation techniques. Rock Drillability. Other approaches.