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Bored Tunnel Using Plaxis 3d for the Proposed Metro Rail at Coimbatore District -- Influence of Density on the Dynamic Properties of Intact Rock Masses -- Brittle – Ductile Transition of Oil Shale -- Numerical Simulation Study on Detection of Subsurface Microcrack Using Active Infrared Thermography -- Comparison of Joint Models Used for the Propagation of Shear Waves Across Jointed Rock -- Time-dependent Behaviour of Underground Openings in Rock Salt -- Mechanical Behaviour of Rocklike Material with an Open Flaw under Triaxial Loading -- An Explicit Finite Element Approach to Tbm Disc Cutter Induced Rock Fragmentation Simulation Asif.

Sommario/riassunto

This book comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2022. The contents focus on recent developments in geotechnical engineering for a sustainable world. The book covers behavior of soils and soil-structure interaction, soil stabilization, ground improvement, and land reclamation, shallow and deep foundations, geotechnical, geological and geophysical investigation, rock engineering, tunneling, and underground structures, slope stability, landslides and liquefaction, earth retaining structures and deep excavations, geosynthetics engineering, geo-environmental engineering, sustainable geotechnics, and landfill design, geo-hydrology, dam and embankment engineering, earthquake geotechnical engineering, transportation geotechnics, forensic geotechnical engineering and retrofitting of geotechnical structures, offshore geotechnics, marine geology and subsea site investigation, computational, analytical and numerical modeling, and reliability in geotechnical engineering. The contents of this book are useful for researchers and professionals alike.
