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Nota di contenuto	Study on Compaction Characteristics of Fine-grained Soil -- Seismic Soil-pile-structure Interaction Studies on Highrise Rc Framed Structure Resting on Pile Groups -- Scale Effects on the Reproducibility of Morphological Parameters of Natural Sand by 3d Printing -- Determination of Characteristic Water Contents of Fiber Reinforced Expansive Soils – a Fundamental Approach -- Effect of Alkali Contamination on Swelling and Strength Characteristics of Soils -- Swelling and Compaction Characteristics of Fiber Reinforced Expansive Soils -- Shear Strength and Pore Pressure Response of Coal Ash under Undrained Shearing at Isotropic and K0 Consolidation -- A Review of Load Transfer Concept of Single Piles Considering Soil Non-linearity --

Study of the Effect of Slope, Location and Loading Direction of Single Pile on the Lateral Load Capacity -- Construction of a Cut-off Wall Using Mixed-in-place Technology for a Flood Retention Basin in Southern Germany -- Investigation on Influence of Pile Foundation on Seismic Response of Irregular Building Considering Soil Structure Interaction -- A New Equation to Predict the Primary Consolidation Settlement of Clays -- Soil-structure Interaction of RC Building for Different Types of Soils Considering the Mohr-coulomb Soil Model -- Identification of Collapsible Soil-a Case Study -- A Study on Effect of Sample Disturbance in Estimating Settlement of Foundations.

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 behaviour of soils and soil–structure interaction, soil stabilization, ground improvement and land reclamation, shallow and deep foundations, geotechnical, geological and geophysical investigation, rock engineering, tunnelling 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 sub-sea site investigation, computational, analytical and numerical modelling, reliability in geotechnical engineering. The contents of this book are useful to researchers and professionals alike.
