1. Record Nr. UNINA9910855371903321

Autore	Jose Babu T
Titolo	Proceedings of the Indian Geotechnical Conference 2022 Volume 2 : Geotechnics: Learning, Evaluation, Analysis and Practice (GEOLEAP) / / edited by Babu T. Jose, Dipak Kumar Sahoo, Eun Chul Shin, Deepankar Choudhury, Anil Joseph, Rahul R. Pai
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819717415 9819717418
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (370 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 477
Altri autori (Persone)	SahooDipak Kumar ShinEun Chul ChoudhuryDeepankar JosephAnil PaiRahul R
Disciplina	624.15
Soggetti	Engineering geology Building materials Geotechnical engineering Geoengineering Building Materials Geotechnical Engineering and Applied Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Bearing Pressure of Foundation on Strong Layer Overlying Weak Clay Accounting for Compressibility -- Interaction Effects for Large Piled Rafts in Clay Soil -- Analysis of Vertically Loaded Pile Raft Foundation on Cohesionless Soil Using Abaqus -- Undrained Bearing Pressure of Desiccated Nonhomogeneous Ground Accounting for Compressibility -- Pile Termination Criteria for Rock Socketed Piles in Chennai Metro Project -- Assessment of Predictive Equations of Extents of Failure Zone in Sand Beneath the Cutting Edge of Open Caisson Using Image Analysis -- Analysis of Settlement Profiles of Shallow Strip Footings Resting on Geosynthetic-Reinforced Sands -- Group Efficiency Ratio of

Pile Groups Subjected to Harmonic Vibration -- Effect of Fin Inclination on Different Shapes of Fin under Axial Load -- Undrained Uplift Capacity of Under-reamed Pile in Layered Clays -- A Review of the Design and Axial Capacity Calculation Practices for Helical Piles -- Connected Versus Disconnected Piled Raft Systems: A Comparative Experimental Assessment -- Study on Mechanism of Load Transfer in Pile-raft Foundation -- Behaviour of Soil in Owt Monopile Foundation Subjected to Torsion -- Evaluation of Nonlinear Load Sharing Ratio of Pile and Raft in Piled Raft Foundation in Cohesionless Soil.

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.