1. Record Nr. UNINA9910633935703321

Titolo	Foundation and Forensic Geotechnical Engineering : Proceedings of the Indian Geotechnical Conference 2021 Volume 2 / / edited by Kasinathan Muthukkumaran, C. N. V. Satyanarayana Reddy, Anil Joseph, S. Senthamilkumar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-19-6359-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (323 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 295
Disciplina	624.15
Soggetti	Engineering geology Foundations Geotechnical engineering Geoengineering Foundation Engineering Geotechnical Engineering and Applied Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Analysis and Design of Foundation System for the Horizontal Solar Axis Tracker -- Chapter 2. Bidirectional and Conventional Static Load Test on Bored Piles in Soil: A Field Comparison -- Chapter 3. The Ultimate Bearing Capacity of Ring Footing with Inclined Base -- Chapter 4. Comparative Study of Geotechnical Design of Foundations as per Indian Standards & Eurocode 7 -- Chapter 5. Parametric Study of the Behavior of Large Piled Raft Foundation on Stiff Clay -- Chapter 6. Estimation of shaft-base initial stiffness and ultimate resistance of O-cell piles -- Chapter 7. A Numerical Study of Performance of Large Piled Raft Foundation on Sand under Vertical Loading -- Chapter 8. Effect of Compressibility on Bearing Pressure of Soft Ground -- Chapter 9. Raft Foundation Analysis for a 135-m High-Rise Residential Tower in Noida -- Chapter 10. Model Study on Single Pile Subjected To Axial and Inclined Load Embedded In Contaminated Soil -- Chapter 11. Behaviour of Combined Piled-Raft Foundation under Eccentric Loading -- Chapter 12. Shape Optimization of Onshore Wind Turbine Foundations --

Chapter 13. Analysis of Load Distribution Coefficient of Piled Raft System: A Numerical Approach -- Chapter 14. Effect of Slope Inclination on V-H and V-M Capacity Envelope of Strip Foundation on Undrained Clay Slope -- Chapter 15. Wind Turbine Foundation Using PHC Piles in Problematic Soil -- Chapter 16. Effect of Super Structural Symmetry on Pile Foundations under Pseudo-Static Loading -- Chapter 17. Behavior of Pile in Sloped Grounds Under The Influence of Surcharge Loads -- Chapter 18. Influence of Flexural Rigidity of Footing and Shear Strength of Supporting Soil on Internal Stresses in Foundation -- Chapter 19. Influence of oil spill on the Load-Settlement Behaviour of Footings of Adjacent Structures -- Chapter 20. Behavior of Vertical and Battered Piles under Combined Axial and Lateral Load -- Chapter 21. Footing Resting on Clayey Slopes -- Chapter 22. A comparison of solutions of laterally-loaded long piles using subgrade modulus approach -- Chapter 23. An Overview of Large Capacity Pile Load Test: A Case study -- Chapter 24. Influence of Soil Cover on Lateral Response of Rock-Socketed Piles -- Chapter 25. Analysis of Foundation System of the Taj Mahal -- Chapter 26. Heritage Impact Assessment of the Subordinate Court Complex near the David Yale and Joseph Hyner’s Tomb -- Chapter 27. Numerical Investigation on the Influence of Different Parameters on a Vegetated Slope - A Case Study -- Chapter 28. A Geotechnical Study on Failed Base Slab of Molasses Tank -- Chapter 29. Geotechnical Design and Execution of Driven Spun Piles in Estuarine Geology.

Sommario/riassunto

This book comprises the select peer-reviewed proceedings of the Indian Geotechnical Conference (IGC) 2021. The contents focus on Geotechnics for Infrastructure Development and Innovative Applications. This book covers topics related to shallow foundations, pile & piled raft foundation, geotechnical design of foundation, wind turbine foundation, foundations on problematic soils, forensic geotechnical engineering, and case studies on geotechnical failures. This book is of interest to those in academia and industry. .