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Titolo	New Developments in Materials for Infrastructure Sustainability and the Contemporary Issues in Geo-environmental Engineering : Proceedings of the 5th GeoChina International Conference 2018 – Civil Infrastructures Confronting Severe Weathers and Climate Changes: From Failure to Sustainability, held on July 23 to 25, 2018 in HangZhou, China // edited by Shanzhi Shu, Liangcai He, Yao Kai
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Collana	Sustainable Civil Infrastructures, , 2366-3405
Disciplina	624.151
Soggetti	Geotechnical engineering Engineering geology Engineering—Geology Foundations Hydraulics Numerical analysis Geotechnical Engineering & Applied Earth Sciences Geoengineering, Foundations, Hydraulics Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1.Impact of Initial In-Situ Stress Field On Soil Response During Cavity Expansion Using Discrete Element Simulation -- 2.Equivalent FEM meshes from axisymmetric (AXID) to three (3D) dimensions applied to tunnels in clay -- 3.Earthquake-induced deformation of breakwater on liquefiable soil with and without remediation: case study of Iran LNG Port -- 4.Effect of the seismic vulnerability of water pipelines on the collapsible soils of the North of Chile -- 5.Experimental study on the dynamic response of saturated sandy soil with different clayey particle content and skeleton sand size -- 6.Model-scale study on the effect of cyclic loading on pile lateral bearing capacity at different directions --

7.Evaluation of Concrete Bored Piles Behaviour in Saturated Loose and Dense Sand during the Static Load Testing -- 8.Experimental Investigations on uplift capacities of single and group of granular anchor piles -- 9.Generalized Solutions for Lateral Bearing Behavior of Large Diameter Monopile Foundation for Offshore Wind Turbine Considering Double Additional Moment Effects -- 10.Full-scale lateral load tests to determine load-displacement characteristics of driven piles in soft clay -- 11.An Experimental Study on Strength Characteristics of Cohesionless Soil under Small Gravity Fields -- 12. Reasons for mid-span failure of pile supported bridges in case of subsurface liquefaction -- 13.Experimental study on Gas permeability of intact loess under applied load with constant stress ratio paths -- 14.Weathered Swelling Mudstone Landslide and Mitigation Measures in the Yanji Basin: A Case Study -- 15.SOIL IMPROVEMENT BY PVD IN AN HARBOR STORAGE AREA -- 16.Research of Geopolymer deal with the Strength of Soft Soil and Microstructure Test -- 17.Mechanical Properties of geopolymers cured in saline water -- 18.Water permeability reduction in THF hydrate-bearing sediments -- 19. Concept of a Geotechnical Solution to Address the Issues of Sea Water Intrusion in Ashtamudi Lake, Kerala -- 20.Importance of Indoor Environmental Quality Criteria to Occupants of Low Income Housing.

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Sommario/riassunto

This book contains research papers focusing on recent advances throughout the world in theories and technologies of geotechnical engineering and the relevant disciplines. Topics includes: numerical modeling, earthquake engineering, geomaterial application in soil improvement and geo-environmental engineering, foundation engineering, and geo-environmental engineering.. Papers were selected from the 5th GeoChina International Conference 2018 – Civil Infrastructures Confronting Severe Weathers and Climate Changes: From Failure to Sustainability, held on July 23 to 25, 2018 in HangZhou, China.

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