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Titolo	Earthquake Geotechnics : Select Proceedings of 7th ICRAE 2021 // edited by T. G. Sitharam, Sreevalsan Kolathayyar, Ravi Jakka
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Descrizione fisica	1 online resource (547 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 187
Disciplina	929.374
Soggetti	Engineering geology Geotechnical engineering Natural disasters Soil science Geoengineering Geotechnical Engineering and Applied Earth Sciences Natural Hazards Soil Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Control of Liquefaction Potential by Geosynthetic Reinforcements – A Study -- Analytical Solution for the Action of Seismic Active Earth Pressures of Unsaturated Backfills Behind Inclined Walls -- Shear Wave Velocity based Liquefaction Susceptibility of Soil using Extreme Learning Machine (ELM) with Strength Pareto Evolutionary Algorithm (SPEA 2) -- Seismic Pullout Capacity of Strip Plate Anchors Embedded in Sandy Slopes -- Role of Borehole Information in Minimizing Uncertainties in Surface Wave Testing -- Engineering Geological Mapping for Seismic Hazard Assessment of the Gandhinagar City, Western India -- Linear and Nonlinear Site Response Study of Soil Tire Crumb Mixture -- Effects of Air Intrusion Technique on Permeability of Liquefiable Soil -- A study on Effect of 12 mm Polypropylene Fiber on Shear Strength Characteristics of Fine Sand -- Local Site Effects Influence on Earthquake Early Warning Parameters.

Sommario/riassunto

This volume presents select papers presented at the 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. The papers discuss advances in the fields of soil dynamics and geotechnical earthquake engineering. Some of the themes include ground response analysis & local site effect, seismic slope stability & landslides, application of AI in geotechnical earthquake engineering, etc. A strong emphasis is placed on connecting academic research and field practice, with many examples, case studies, best practices, and discussions on performance based design. This volume will be of interest to researchers and practicing engineers alike.

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