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Titolo	Recent Advances in Geo-Environmental Engineering, Geomechanics and Geotechnics, and Geohazards : Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018 / / edited by Amjad Kallel, Zeynal Abiddin Erguler, Zhen-Dong Cui, ALi Karrech, Murat Karakus, Pinnaduwa Kulatilake, Sanjay Kumar Shukla
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Soggetti	Geotechnical engineering Environmental engineering Biotechnology Bioremediation Geology Natural disasters Environmental management Geotechnical Engineering and Applied Earth Sciences Environmental Engineering/Biotechnology Natural Hazards Environmental Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Identification and assessment of different geo-environmental problems -- Remediation for geo-environmental problems -- Characterization of geomaterials -- The behavior of soils under dynamic loading -- Recent studies on expansive soils -- Improvement of physical and mechanical properties of soils -- Analytical and numerical modeling of geo-structures -- Assessments of mass movement based geohazards -- Characterization and impacts of different geohazards -- .

Sommario/riassunto

This edited volume contains the best papers in the geo-engineering field accepted for presentation at the 1st Springer Conference of the Arabian Journal of Geosciences, Tunisia 2018. In addition, it includes 3 keynotes by international experts on the following topics: 1. A new three-dimensional rock mass strength criterion 2. New tools and techniques of remote sensing for geologic hazard assessment 3. Land subsidence induced by the engineering-environmental effects in Shanghai China The book is useful for readers who would like to get a broad coverage in geo-engineering. It contains 11 chapters covering the following main areas: (a) Applications in geo-environmental engineering including soil remediation, (b) Characterization of geo-materials using geological, geotechnical and geophysical techniques, (c) Soil improvement applications, (d) Soil behaviour under dynamic loading, (e) Recent studies on expansive soils, (f) Analytical and numerical modelling of various geo-structures, (g) Slope stability, (h) Landslides, (i) Subsidence studies and (j) Recent studies on various other types of geo-hazards.
