1. Record Nr. UNINA9910492142903321

Autore	Fatahi Behzad
Titolo	Resilient Design and Construction of Geostructures Against Natural Hazards : Proceedings of the 6th GeoChina International Conference on Civil & Transportation Infrastructures: From Engineering to Smart & Green Life Cycle Solutions -- Nanchang, China, 2021 / / edited by Behzad Fatahi, Shen-En Chen, Jun Hu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	9783030798543 3030798542
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (189 pages)
Collana	Sustainable Civil Infrastructures, , 2366-3413
Altri autori (Persone)	ChenShen-en HuJun FatahiBehzad
Disciplina	624.15
Soggetti	Engineering geology Geoengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Laboratory Evaluation and Neural Network Modeling of Treated Macau Marine Clay -- Prediction of Seismic Site Coefficients for Northeast Arkansas -- Rheological Characterization and Computational Fluid Simulation of Foam -- Conditioned Muck during EPB Shield Tunneling in Gravelly Sand Stratum -- Earthquake Damage Estimation using RADIUS model (Case Study: Tehran) -- Hydro-mechanics analysis on the strength development of cement-stabilized cracked clay -- Progressive Growth of Calcium Carbonate during MICP Process -- Large strain consolidation with time and distance dependent boundary conditions -- Effects of drilling uncertainty and seepage flow on the heat transfer in artificial ground freezing -- Finite element analysis of strain localization in natural clay using elasto-viscoplastic constitutive model -- Analysis of calculated subgrade settlement in the loess area -- Stress-Controlled Direct Shear Tests Of Straw Fiber Reinforced Loess -- Enhancement of expansive soils with the treatment of lignosulfonate.

Sommario/riassunto	This volume contains state of the engineering practice and recent research in the field of built infrastructure and natural hazards. It is expected that the book will help engineers and researchers to design and built resilient infrastructures in challenging conditions (e.g., earthquakes and climate change) while optimising the design and minimising the future maintenance cost. In particular new design and construction techniques with reference to major infrastructure projects such as tunneling and transport infrastructure are discussed.