

1. Record Nr.	UNINA9910484117203321
Titolo	Local Site Effects and Ground Failures : Select Proceedings of 7th ICRAE 2020 // edited by T. G. Sitharam, Ravi Jakka, L. Govindaraju
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-15-9984-X
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (380 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 117
Disciplina	624.15136
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 contenuto	Ground Response Analysis with Deep Bedrock Depth in Indo-Gangetic Plains -- Soil Amplification Study for Kolkata Region -- Simulated Annealing Algorithm for Subsurface Shear Wave Velocity Investigation using Ground Vibration Data -- Nonlinear Soil Amplification Models for a Moderately Active Seismic Zone in India -- Prediction of Future Surface PGA in the States of Indo-Gangetic Basin Considering Site Specific Studies -- Synthetic Ground Motion Simulation for Varanasi City -- Dynamic Study of Existing Structure Influenced by Adjacent Deep Excavation -- 1D and 2D Dynamic Site Response of Landfill Site through Numerical Analysis -- A Study on Characteristics of Soil Profile of Guwahati City against Different Ground Motions: 1D Non Linear Ground Response Analysis -- One Dimensional Ground Response Analysis to Arrive at Surface Peak Ground Acceleration- A Case Study of Golaghat District in Assam.
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. .
