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Titolo	Advances in Analysis and Design of Deep Foundations : Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures / / edited by Murad Abu-Farsakh, Khalid Alshibli, Anand Puppala
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Descrizione fisica	1 online resource (304 pages) : illustrations (some color), graphs
Collana	Sustainable Civil Infrastructures, , 2366-3413
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Soggetti	Geotechnical engineering Engineering geology Computer simulation Buildings - Design and construction Engineering design Geotechnical Engineering and Applied Earth Sciences Geoengineering Computer Modelling Building Construction and Design Engineering Design
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1 Evaluation of Ultimate Pile Compression Capacity from Static Pile Load Test Results -- 2 Behavior of Piles in Two Soil Layers, Sand Overlaying Compressible Clay (Case Study) -- 3 Laboratory Study of Plug Length Development and Bearing Capacity of Pipe Pile Models Embedded within Partially Saturated Cohesionless Soils -- 4 Bearing capacity and settlement of pile based on cone loading test -- 5 Experimental Study on Ultimate Capacity of Large Screw Piles in Beijing.
Sommario/riassunto	This volume on “Advances in Analysis and Design of Deep Foundations” contains 22 technical papers which cover various aspects of analysis and design of deep foundations based on full-scale field testing,

numerical modeling, and analytical solutions. The technical papers are 8-10 pages long that present the results and findings from research as well as practical-oriented studies on deep foundations that are of interest to civil/geotechnical engineering community. The topics cover a wide spectrum of applications that include evaluation of the axial and lateral capacity of piles, pile group effects, evaluation of the increase in pile capacity with time (or pile setup), influence of excavation on pile capacity, study the behavior of pile raft caisson foundations, evaluate the bearing capacity and settlement of piles from cone penetration tests, etc. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.