

1. Record Nr.	UNINA9910337901703321
Titolo	Advanced Research on Shallow Foundations : Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE) // edited by Hany Shehata, Braja Das
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-01923-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (266 pages)
Collana	Sustainable Civil Infrastructures, , 2366-3413
Disciplina	624.15
Soggetti	Geotechnical engineering Civil engineering Geotechnical Engineering and Applied Earth Sciences Civil Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Effect of shape and depth of shallow foundations on failure mechanism and wedge angle of sandy soil -- 2. Settlement of surface strip foundation resting on soft clay subjected to vertical cyclic load -- 3. Ultimate bearing capacity of eccentrically inclined loaded circular foundation on sand layer of limited thickness using ANN -- 4. Thoughts on a simple means of estimating settlement in thick soil layers in accordance with hypothesis B -- 5. Upgrading of the technologies of soil preparation and construction of foundations for structures of oil and gas industry -- 6. Evaluation of load-settlement behaviour of square model footings resting on geogrid reinforced granular soils -- 7. Ferro-cement injection grout for foundation strengthening -- 8. Effect of "matching" on the prediction of excess pore water pressure in plane strain analyses -- 9. Variable modulus of subgrade reaction - settlement profile convergence method -- 10. Slope stability analysis under external static surcharge -- 11. Improvement of fine soils through microbial-induced calcite precipitation -- 12. Environmentally friendly building materials in

ground and special foundation engineering on the example of a fully biological soft gel for subsoil injection -- 13. Seismic soil structure interaction of a mid-rise frame structure -- 14. 3d fe analysis model for geotechnical problems of historic masonry structures -- 15. Hypotheses of the tilting of nevyansk tower.

Sommario/riassunto

This volume deals with the advanced analysis of shallow foundations. Several research studies are considered including soil plasticity, cracking, reaching the soil bearing capacity, creep, etc. Dynamic analyses together with stability analysis are also discussed. It gives wide range of topics dealing with the shallow foundations in different parts of the world. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).
