

1. Record Nr.	UNINA9910299402403321
Titolo	Advances in Reinforced Soil Structures : Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures // edited by Sanjay Kumar Shukla, Erol Guler
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-63570-0
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (160 pages) : illustrations, tables
Collana	Sustainable Civil Infrastructures, , 2366-3405
Disciplina	631.43
Soggetti	Geotechnical engineering Engineering geology Engineering—Geology Foundations Hydraulics Buildings—Design and construction Building Construction Engineering, Architectural Engineering design Geotechnical Engineering & Applied Earth Sciences Geoengineering, Foundations, Hydraulics Building Construction and Design Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Direct Shear Testing of Sand - Geotextile Interfaces -- Consideration of geosynthetic tension in interpretation of data from inclined plane tests -- Stress -Strain Behaviour of Sand with Disc Plate-Shaped Reinforcement -- Swelling and Shrinkage Behaviour of Expansive Soil Blended with Lime and Fibres -- Feasibility of utilization of metalized

plastic waste in cohesion-less soil.

Sommario/riassunto

Soil reinforcement is a very useful technique to construct several cost-effective soil structures in an environmentally friendly and sustainable manner. The most commonly used reinforcement materials are galvanised steel strips, geosynthetics in the form of woven geotextiles, geogrids and geocomposites, and fibres from natural and waste products. In recent years, there have been advances in the area of soil reinforcement, especially in the utilization of the technique in field projects. The researchers have also been working to understand the behaviour of reinforced soil considering the field challenges of reinforced soil structures. This edited volume contains contributions on advances in reinforced soil structures, mainly flexible pavements, footings, embankments, stone columns/piles, and slopes, as covered in the subject areas of geosynthetic engineering and fibre-reinforced soil engineering. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.
