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Nota di contenuto	Experimental and numerical modelling of a reinforced structure -- Employment of sisal natural fibers as soil reinforcement -- Bearing capacity of surface treated coir geotextile reinforced sand Load carrying capacity of expansive clay beds reinforced with geogrid-encased granular pile-anchors -- Ultimate bearing capacity prediction of eccentrically loaded rectangular footing on reinforced sand by ann -- Rehabilitation of canals with watertight geomembranes, in the dry and underwater -- Rehabilitation of dams with watertight geomembranes, in the dry and underwater -- Long term behavior of eps geof foam for road embankments -- Flexural and shear characterization of geosynthetic reinforced asphalt overlays -- Evaluation of strength and resilient modulus characteristics of fly ash geopolymer stabilized reclaimed asphalt pavement material -- How stiffness of reinforcement affects the type of major reinforcement force developed at various orientations in reinforced sand? -- A review on improvement of subgrade soil using coir geotextiles -- Cantilever segmental retaining walls -- Pre-stressed segmental retaining walls (psrws) --

Waterproofing a heterogeneous soil (sand-bentonite) with water and leachate.

Sommario/riassunto

This volume contains contributions on advances in geosynthetics engineering. 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. 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).
