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Nota di contenuto	Effect of embedment on dynamic response of block foundation under coupled vibration -- The liquefaction potential of sandy silt layers using the correlation between penetrometer test and spt test -- Seismic soil structure interaction analysis of rigid piled isolated footing for mid rise building in a weak soil -- Lateral resistance of steel pipe pile with wings by static cyclic loading tests -- Reinforced embankments on soft soil, focus on lateral spreading -- Experimental study on lateral resistance of steel pipe pile with wings using the new composite geo-material with magnesium acrylate -- Vibration isolation of foundation using hdpe and natural geocells - a review -- Pseudo-dynamic approach to analyse the effect of soil amplification in the calculation of seismic active earth pressure distribution behind the inclined retaining wall for inclined c- soil backfill -- Large scale geotechnical shake table testing at the university of california san diego -- Response of a 850 kw wind turbine including soil-structure interaction during seismic excitation -- Effect of gradation on the

dynamic response of sands -- Dynamic properties of surface liquefied site silty-sand of tripura, india -- Effect of width variation of liquefiable sand lens on surface settlement due to shallow tunnelling -- Liquefaction potential analysis and numerical modeling - container terminal of algiers port -- Research on impact vibration test for port structure in Vietnam -- Cyclic thermal effects on soil structure interaction in case of energy piles -- Probabilistic analysis of buried pipeline response subjected to fault crossing.

Sommario/riassunto

This volume focuses on the role of soil-structure-interaction and soil dynamics. It discusses case studies as well as physical and numerical models of geo-structures. It covers: Soil-Structure-Interaction under static and dynamic loads, dynamic behavior of soils, and soil liquefaction. It is hoped that this volume will contribute to further advance the state-of-the-art for the next generation infrastructure as a key to creating a sustainable community affecting our future well-being as well as the economic climate. 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).