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Altri autori (Persone)	NakanoMasashi <1937-> PuschRoland
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Sommario/riassunto	From bridges and tunnels to nuclear waste repositories, structures require that soils maintain their design engineering properties if the structures are to reach their projected life spans. The same is true for earth dams, levees, buffers, barriers for landfills, and other structures that use soils as engineered materials. Yet soil, a natural resource, continues to change as a result of natural and anthropogenic stresses. As the discipline of soil properties and behaviours matures, new tools and techniques are making it possible to study these properties and behaviours in more depth. What Happens to Soil Under Weathering, Aging, & Chemical Stress? Environmental Soil Properties and Behaviour examines changes in soil properties and behaviour caused by short- and long-term stresses from anthropogenic activities and

environmental forces. Introducing new concepts of soil behaviour, soil maturation, and soil functionality, it integrates soil physics, soil chemistry, and soil mechanics as vital factors in soil engineering. The book focuses on environmental soil behaviour, with particular attention to two main inter-related groups of soil environment issues. The first is the use of soil as an environmental tool for management and containment of toxic and hazardous waste materials. The second is the impact of ageing and weathering processes and soil contamination on the properties and behaviour of soils, especially those used in geotechnical and geoenvironmental engineering projects.

A Transdisciplinary Look at Soil-Changing Processes To determine short- and long-term soil quality and soil functionality, the authors emphasize the need to be aware of the nature of the stressors involved as well as the kinds of soil-changing processes that are evoked. This book takes a first step toward a much-needed transdisciplinary effort to develop a broader and deeper understanding of what happens to soil and how we can determine and quantify the effect of biogeochemical processes. It offers a timely resource for the study of soil properties and behaviours, effects of environmental changes, and remediation of contaminated soil--

Preface Soils are dynamic living systems that constitute a vital part of the environment. The soil- environment is the engine that provides the base or platform for human sustenance--food, shelter, and clothing. Food production, forestry, and mineral extraction are some of the life-support activities that depend on soils--in addition to their utility in constructed facilities. All the activities associated with soils require knowledge of their properties and their behaviour under various scenarios and requirements. Studies on soils and their characteristics, properties, and behaviour have been conducted in many different fields of science and engineering. Considerable progress has been made over the past 50 years in our understanding of soil behaviour, and especially in regard to the over-riding physicochemical control of soil behaviour. Much of the progress has been due to (a) the concerted focussed research efforts of researchers, and the exchange and acceptance of ideas and information between different disciplines such as soil engineering, soil science, mineralogy, microbiology, engineering geology, etc., and (b) the trans-disciplinary and multidisciplinary research studies mounted by these different disciplines. There has been heightened understanding of the significant roles of geologic origin and regional controls on the nature, properties, and response performance of soils--

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