1. Record Nr. UNINA9910555110403321

Titolo	Quantifying and modeling soil structure dynamics / / Sally Logsdon, Markus Berli, and Rainer Horn, editors
Pubbl/distr/stampa	Madison, Wisconsin : , : Soil Science Society of America, , 2013
ISBN	0-89118-957-2
Descrizione fisica	1 online resource (xi, 208 pages)
Collana	Advances in Agricultural Systems Modeling ; ; Volume 3
Disciplina	624.151
Soggetti	Soil-structure interaction Soil dynamics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"Quantifying and Modeling Soil Structure Dynamics emphasizes a systems approach to how soil structure changes in response to inputs and to the environment. Soil structure is a dynamic, complex system affected by tillage, wheel traffic, roots, soil life, shrink swell, and freeze thaw. In turn, soil structure affects root growth and function, soil fauna, solute transport, water infiltration, gas exchange, thermal and electrical conductivities, traffic bearing capacity, and more. Ignoring soil structure or viewing it as "static" can lead to poor predictions and management. Readers will especially appreciate the description of soil structure influence on endpoints, such as environmental contamination and efficient water use, and how models should be adjusted to include dynamic soil structure components for accurate outputs"-- page 4 of cover.