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Essential Soil Physics : An introduction to soil processes, functions, structure and mechanics

By Karl Heinrich Hartge

Schweizerbart Sche VlgSb. Jul 2016, 2016. Taschenbuch. Condition: Neu. Neuware - Also available as hardcover edition Soils are the porous skin of the Earth with variable and complex structures composed of solid, liquid and gaseous phases. Being in close contact with the atmosphere, biosphere hydrosphere, and lithosphere, soils fulfill numerous functions as a filter, buffer, habitat for organisms and resource for raw materials and food rendering them as the basis for life on our Planet. Soils are subject to continuous transformations and their dynamic nature is important for the interaction of biological, biogeochemical and physical processes. But at the same time they are vulnerable and affected by human activity and often subject to degradation. This textbook (based on the 4th, German language edition) introduces the reader gently but comprehensively to soil physical processes. The authors discuss both the origin and dynamics of soil physical properties and functions - volume-mass relations of the solid, water and gas phases, grain and pore size distributions, permeability and storage capacity for water, gases and heat - and finally soil deformation and strength in relation to mechanical and hydraulic stresses resulting in structural changes through compaction, kneading, slaking and soil crusting. Unlike other soil physics...



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