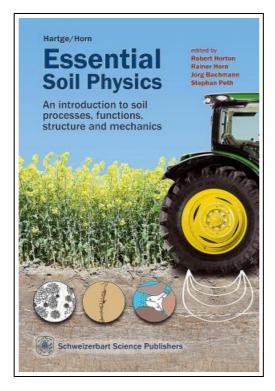
# Essential Soil Physics : An introduction to soil processes, functions, structure and mechanics



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# Reviews

Definitely one of the better publication I have got possibly read. It really is writter in basic phrases and not difficult to understand. You wont sense monotony at anytime of your respective time (that's what catalogs are for about if you request me). (Darion Lowe)

# ESSENTIAL SOIL PHYSICS : AN INTRODUCTION TO SOIL PROCESSES, FUNCTIONS, STRUCTURE AND MECHANICS



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 textbooks, soil mechanical properties are herein described in great detail, because otherwise it is impossible to understand and adequately quantify soil stability and the effects of soil deformation on soil physical functions. The book treats the physics of water, gas and heat movement in soils and interactions with the solid phase at various scales and other factors in detail -- because these are considered the ultimate basis of any model of soil behavior. Threats to soils worldwide ultimately endanger food security for a growing world population. Because of this, the effects of soil use and degradation on transport processes, soil...



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