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New Trends In Soil Micromorphology



Synopsis

The soil water retention curve, the saturated hydraulic conductivity and the unsaturated hydraulic conductivity function are basic soil hydraulic functions and parameters. Ample apprehension of the soil hydraulic functions and parameters is required for a successful formulation of the principles leading to sustainable soil management, agricultural production and environmental protection. From these, all the other parameters, required in the solution of the practical tasks, are derived. The basic soil hydraulic functions are strongly dependent upon the soil porous system. The development of models is characteristic by the gradual transition from the simplest concepts up to the sophisticated approaches, which should correspond to the visual reality studied by soil micromorphology.

2 Soil Porous System and Soil Micromorphometry

2.1 An Overview on the Quantification of the Soil Porous System

Quantification of the soil porous system consists of classification of soil pores, characterization of the soil pores shapes and the estimation of the pore size distribution function. When the hydraulic functions of the soil pores are considered, the following laws of hydrostatics and hydrodynamics are applied as best fitting to the classification criteria of the size of the pores (Kutilek and Nielsen 1994, p. 20, Kutilek 2004):

- A. Submicroscopic pores that are so small that they preclude clusters of water molecules from forming fluid particles or continuous water flow paths.

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