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## Simulation of Soil Moisture Movement in a Hard Rock Watershed using SWIM Model

By C. P. Kumar

GRIN Verlag GmbH Okt 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Technical Report from the year 2014 in the subject Geography / Earth Science - Geology, Mineralogy, Soil Science, , language: English, abstract: A very large fraction of the water falling as rain on the land surfaces of the earth or applied irrigation water moves through unsaturated soil during the subsequent processes of infiltration, drainage, evaporation, and the absorption of soil-water by plant roots. The water movements in the unsaturated zone, together with the water holding capacity of this zone, are very important for the water demand of the vegetation, as well as for the recharge of the ground water storage. A fair description of the flow in the unsaturated zone is also crucial for predictions of the movement of pollutants into ground water aquifers. A number of simulation models are available for investigating the soil water balance. SWIM (Soil Water Infiltration and Movement) is a physically based, isothermal, one dimensional model of water flow through the soil coupled with a simple crop water extraction model in which the growth of the canopy and of the root system is a predetermined input. SWIM is driven by rainfall and potential evaporation,...



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