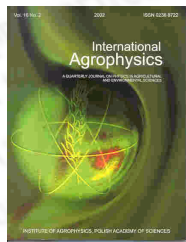




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Simulating particle packing for soil porosity investigations*

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abstract The idea of spherical particle packing was used to determine some physical properties of the soil: porosity, pore size distribution and moisture retention curve. The packing procedures take into account the compaction effect. A new approach to the pore space characterization is presented. The results concerning porosity and moisture retention of sands are compared with the experimental data.

keywords grain size distribution, particle packing simulation, pore size distribution, capillary pressure