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Available Technologies

Dynamic Measurement of Hydraulic Parameters Under Liquid Unsaturated Flow Conditions

SUMMARY

Groundwater quality is increasingly important. Assessing groundwater quality requires understanding flow and transport processes under unsaturated conditions. Small changes in the porosity, permeability, and water retention characteristics induced by chemical reactions can significantly alter the hydraulic properties of porous media such as soil.

This patented technology permits collection of data at sufficiently small time intervals so that individual precipitation events in the porous medium may be separated and their effects on flow (if any) identified.

RELATED LINKS

» **Pressurized Unsaturated Flow**

http://agg.pnl.gov/research_areas/contaminant.asp



Patents & Intellectual Property

- » Patent # 5,974,859

Technology Portfolio(s)

- » Monitoring

Potential Industry Applications

- » Agriculture & Mining
- » Oil & Gas
- » Recycling & Waste Management

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