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Guillermo H Goldsztein* (ggold@math.gatech.edu), School of Mathematics, Georgia Tech,
Atlanta, GA 30332. *Solute transport in porous media.*

We study the transport of solutes in saturated porous media. We restrict our attention to media that consist of interconnected thin channels and periodic microgeometry. We develop a method to compute the macroscopic transport properties in terms of the microgeometry and the flow field within the media. (Received September 25, 2006)