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MODELLING WATER FLOW AND SOLUTE TRANSPORT FOR

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A mathematical model consists of differential equations developed from analyzing groundwater flow (or solute transport in groundwater) and are known to govern the physics of flow (and transport). The reliability of model predictions depends on how well the model approximates the actual situation in the

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Fundamental Principles And Physical And

Solute Transport in the Phloem Phloem is difficult to study in plants because: (1) the transport cells/tissue in plants are small (microscopic) in comparison to the transport structures in animals; (2) there is a very rapid response of the phloem to wounding (contents under pressure); (3) transport in plants is intracellular (vs. extracellular in animals); and (4) the transport cells are alive.

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Osmosis is a special case of passive transport. In osmosis, water diffuses from a hypotonic (low solute concentration) solution to a hypertonic (high solute concentration) solution. Generally speaking, the direction of water flow is determined by the solute concentration and not by the nature of the solute molecules themselves.

Diffusion: Passive Transport and Facilitated Diffusion
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When transport of solute and/or heat is of interest, a

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groundwater flow code is coupled or linked to a transport code. Simulating the full suite of processes related to streamflow generation and routing requires coupling a groundwater code to a rainfall-runoff code.

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