
Soil Water Dynamics A W Warrick

original research soil water dynamics and nitrate leaching ... - soybean and continuous corn cropping systems exhibited similar soil water dynamics, drainage rates (145–202 mm yr⁻¹), leachate nitrate concentrations (21.3–25.6 mg l⁻¹), and nitrate leaching loads (30–75 kg ha⁻¹ yr⁻¹). **soil water and nitrogen dynamics in dryland cropping ...** - soil & tillage research 71 (2003) 33–47 soil water and nitrogen dynamics in dryland cropping systems of washington state, usa juan p. fuentesa, markus flurya*, david r. hugginsb, david f. bezdiceka a department of crop and soil sciences, washington state university, pullman, wa 99164, usa **study of water dynamics in the soil-plant-atmospheric ...** - study of water dynamics in the soil-plant-atmospheric continuum in a water-controlled ecosystem by xingyuan chen doctor of philosophy in engineering-civil and environmental engineering university of california at berkeley professor yoram rubin, co-chair professor dennis d. baldocchi, co-chair the study of water exchange between soil, plants ... **soil moisture and nutrient dynamics in the root zone of ...** - dynamics within and below the root zone of collard greens. soil moisture sensors were installed at all 36 plots to monitor soil moisture within and below the root zone. suction cups were used to collect soil water samples from 15 and 45 cm depths. soil water samples were collected six times during the **water dynamics in the soil-plant-atmosphere system** - water dynamics in the soil-plant-atmosphere system concerns the capacity of the soil water reservoir, its depletion and replenishment, and its efficient management for crop production. **a comparative modeling study of soil water dynamics in a ...** - the soil and water extraction from the soil via evaporation and transpiration. pals-sw emphasizes plant physiological controls of water loss, 2dsoil is a mechanistic model that emphasizes the physical aspects of soil water dynamics, and swb is a simple water budget model that includes all of the system **estimating nitrate leaching and soil water dynamics with ...** - estimating nitrate leaching and soil water dynamics with leachm a.d. johnson, m.l. cabrera, w.l. hargrove, d.v. mccracken, and g.w. harbers ... hutson, 1989) for estimating nitrate leaching and soil nitrate and water contents in plots with and without a rye cover crop. ... depends in part on how well the model simulates soil water dynamics. for ... **real-time soil water dynamics over large areas using ...** - the multisensor capacitance probes and monitoring system have proven to be highly sensitive and robust for field scale soil water research. viewing the soil water dynamics in real-time provides opportunity for precise control over the timing and amount of water that **special section: catchment-scale soil water critical zone ...** - catchment-scale soil water dynamics in a mediterranean-type oak woodland water availability is one of the most serious natural resource issues facing california, especially given projections for future climate change. the 3 million ha of oak (quercus spp.) **the global distribution and dynamics of surface soil moisture** - however, sparse and uneven observations have made it difficult to quantify the global distribution and dynamics of surface soil moisture. here we introduce a metric of soil moisture memory and use a full year of global observations from nasa's

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