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Vadose Zone Hydrology Cutting Across

The vadose zone is the region between ground level and the upper limits of soil fully saturated with water. Hydrology in the zone is complex: nonlinear physical, chemical, and biological interactions all affect the transfer of heat, mass, and momentum between the atmosphere and the water table.

Vadose Zone Hydrology: Cutting Across Disciplines ...

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Vadose Zone Hydrology - Marc B. Parlange; Jan W. Hopmans ...

Vadose zone, region of aeration above the water table. This zone also includes the capillary fringe above the water table, the height of which will vary according to the grain size of the sediments. In coarse-grained mediums the fringe may be flat at the top and thin, whereas in finer grained material it will tend to be higher and may be very irregular along the upper surface.

Vadose zone | hydrology | Britannica

The vadose zone is an intrinsic part of the hydrologic cycle, essentially controlling interrelationships between precipitation, infiltration, surface runoff, evapotranspiration and groundwater recharge.

Role of vadose-zone flow processes in regional-scale ...

The diversion can take place in several ways. As the water table drops, the stream may simply cut a canyon in the floor to form a keyhole cross section. Most often when a tube evolves from phreatic to vadose, the vadose water forms an entirely independent lower route that diverges from the original path (Figure 1).

Vadose Water - an overview | ScienceDirect Topics

Vadose Zone Hydrology Vadose zone research at UNLV focuses on understanding fluid migration in arid to semi-arid terrain. Specific research areas include: water flux across the air-soil interface, moisture redistribution in the root zone, and deep recharge. Each of these topics is considered through field, laboratory, and numerical investigations.

Hydrogeology - UNLV Geoscience

Brusseau ML (1999) Nonideal transport of reactive solutes in porous media; Cutting across history and disciplines. In: Parlange MB, Hopmans JW (eds) Vadose zone hydrology: cutting across disciplines. Oxford University, New York, NY, pp 130-154 Google Scholar

Leaching of Contaminants to Groundwater | SpringerLink

The vadose zone does not include the area that is still saturated above the water table, often referred to as the capillary fringe. [1] Movement of water within the vadose zone is studied within soil physics and hydrology , particularly hydrogeology , and is of importance to agriculture , contaminant transport, and flood control .

Vadose zone - Wikipedia

In the vadose zone, usually, soils experience high matric suction during dry periods which results in a significant additional soil strength component (i.e. apparent cohesion) and thus plays a ...

(PDF) Temporal pattern of soil matric suction in the ...

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Hydrology / TavazSearch

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Baris MAJNOUNIAN | PhD | University of Tehran, Tehran | UT ...

In: Vadose Zone Hydrology - Cutting Across Disciplines, Parlange, M.B. and Hopmans, J.W., Eds. Oxford University Press, New York, NY. pp. 99-129. Hairsine, P.B., Sander, G.C., Rose, C.W., Parlange, J.-Y., Hogarth, W.L., Lisle, I. and Rouhipour, H. 1999.

INTERACTION OF EROSION AND INFILTRATION PROCESSES IN ...

A physically-based, national-scale hydrological model in China was developed with 19,406 sub-watersheds and 81,687 contour belts. • The research incorporated new mechanisms on soil moisture movement in special vadose zone and strengthened the elevation effect of meteorological and vegetation variables.

Development and validation of a physically-based, national ...

Vadose zone hydrology: cutting across disciplines; A-TOUGH; Monitoring the Vadose Zone in Fractured Tuff - 1988; Air-TOUGH; Nye County Technical Program - TOUGH Yucca Mountain-Rulon, et. al. - LBL Report 1986

Environmental Simulation

Instrumentation systems, geographic information systems (GIS), vadose zone hydrology: Daniella M Rempe Hydrology, Geomorphology, Ecohydrology, Catchment Hydrology, Near-surface Geophysics, Hydrogeology: Enrique Reyes: Thomas G Richter: Harold H Rogers: Katherine D Romanak

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