

## Hillslope Hydrology And Stability

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### Hillslope Hydrology And Stability

This cutting-edge quantitative approach to understanding rainfall-induced landslides integrates the mechanical and hydrological processes governing hillslope stability. It is an invaluable resource for graduate students and researchers in hydrology, geomorphology, engineering geology and geomechanics and for professionals in the fields of civil and environmental engineering and natural hazard analysis.

### Hillslope Hydrology and Stability: Lu, Ning, Godt ...

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### Hillslope Hydrology and Stability, Lu, Ning, Godt ...

Landslides are caused by a failure of the mechanical balance within hillslopes. This balance is governed by two coupled physical processes&#58; hydrological or subsurface flow and stress. The stabilizing strength of hillslope materials depends on effective stress, which is diminished by rainfall...

### Hillslope Hydrology and Stability by Ning Lu, Jonathan W ...

Topics covered include historic synthesis of hillslope geomorphology and hydrology, total and effective stress distributions, critical reviews of shear strength of hillslope materials and different bases for stability analysis. Exercises and homework problems are provided for students to engage with the theory in practice.

### Hillslope Hydrology and Stability by Ning Lu

Landslides are caused by a failure of the mechanical bal- ance within hillslopes. This balance is governed by two coupled physical processes: hydrological or subsurface flow and stress. The stabilizing strength of hillslope materials depends on effective stress, which is diminished by rainfall.

### Hillslope Hydrology and Stability - Oregon State University

Introduction. The mechanism that drives the movement of water, in either the liquid or vapor phase, or as mixture of the two, in hillslopes is the gradient of water potential. For unsaturated hillslope materials, water potential can be cast in either liquid or vapor (gas) form. Several distinct physical mechanisms can contribute to water potential in pore water, namely, gravity, pressure, kinetics, and osmosis.

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Existing observations seem to suggest that hillslope hydrology is an important driver of plant rooting depth (Fan et al., 2017). Figure 5A plots 2020 rooting depth observations of >1,000 species, on a log scale, against several abiotic and biotic factors. At a given mean annual precipitation (a) or within a given soil texture class (b), rooting ...

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### Quantifying the three-dimensional effects of anisotropic ...

Hillslope Hydrology in Global Change Research and Earth System Modeling. Y. Fan. Corresponding Author. E-mail address: yingfan@eps ... Quanyan Tian, Soil moisture temporal stability and spatio-temporal variability about a typical subalpine ecosystem in northwestern China, Hydrological Processes, 10.1002/hyp.13737, 34, 11, (2401-2417), (2020 ...

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### Hillslope Hydrology and Stability - E-bok - Ning Lu ...

He teaches regularly on mechanics and hydrology of variably saturated porous media with the textbook Unsaturated Soil Mechanics (John Wiley and Sons, 2004) .He also teaches vadose zone hydrology and landslides with the textbook Hillslope Hydrology and Stability (N. Lu and J.W. Godt, Cambridge University Press, 2012).

### Ning Lu - Civil and Environmental Engineering

Hillslope hydrology and stability. New York : Cambridge University Press, ©2012 (DLC) 2012024783 (OCoLC)798132911: Material Type: Document, Internet resource: Document Type: Internet Resource, Computer File: All Authors / Contributors: Ning Lu; Jonathan W Godt.

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