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OVERVIEW OF FOREST HYDROLOGY AND FOREST MANAGEMENT EFFECTS

Forest Hydrology. Hydrology is the science that studies the waters of Earth. Hydrology seeks to understand where water occurs; how water circulates; how and why water distribution changes over time; the chemical and physical properties of water; and the relation of water to living organisms.

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Interception rain and snow by forest vegetation is an important hydrologic process. It may account for a substantial proportion (as much as 20 to 30%) of annual precipitation. Consider also that the forest canopy intercepts the kinetic energy of rain.

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As such, forest hydrology is an interdisciplinary science that evolved from the specialization of traditional hydrological science and forest ecosystem science during the past century (NRC, 2008).

Forest Hydrology: An Introduction to Water and Forests ...

Forest Hydrology: An Introduction to Water and Forests, Third Edition - CRC Press Book Due to its height, density, and thickness of crown canopy; fluffy forest floor; large root system; and horizontal distribution; forest is the most distinguished type of vegetation on the earth.

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Forest Hydrology: An Introduction to Water and Forests covers issues on water, forests, the water-forest relation, watershed research, and hydrologic measurements, and provides state-of-the-art knowledge on the impact of forests to the hydrologic environment.

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Forest Floor Interception 1-5% and depends on thickness of litter, water holding capacity, frequency of wetting, and evaporation rate. Interception & Net Precipitation Interception increase with time ... Introduction To Forest Hydrology Author: hal liechty Created Date:

Forest Hydrology (3rd ed.) by Mingteh Chang (ebook)

Although a few texts on forest hydrology are available, they cover very little, if any, background on water resources. On the other hand, books dealing with water resources do not cover topics on forest-water relations. The one exception to this is Forest Hydrology: An Introduction to Water and Forests.

Forest hydrology : an introduction to water and forests ...

Natural Resources Science and Management. The Forest Hydrology and Watershed Management track is designed to bring together the integrally related areas of earth sciences, soils, and water resources management with an applied focus on wildland ecosystems, which may include the interface of forests with grasslands, wetlands, and agriculture.

Introduction To Forest Hydrology

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Forest Hydrology - building, effects, important, types ...

Forest hydrology, the study of how water flows through forests, can help illuminate the connections between forests and water, but it must advance if it is to deal with today's complexities, including climate change, wildfires, and changing patterns of development and ownership.

Introduction To Forest Hydrology

Introduction to Hydrology. The process of water circulating from precipitation in the atmosphere falling to the ground, traveling through a river basin (or through the entire earth system), and then evaporating back to the atmosphere is known as the hydrologic cycle. This introductory chapter includes seven subjects, namely, hydroclimatology,...