



Forest Hydrology

John D. Hewlett



Forest Hydrology:

Forest Hydrology Mingteh Chang, 2012-11-01 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 In the U S forests occupy about 30 percent of the total territory Yet this 30 percent of land area produces about 60 percent of total surface runoff the

Forest Hydrology Mingteh Chang, 2012-11-01 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 In the U S forests occupy about 30 percent of the total territory Yet this 30 percent of land area produces about 60 percent of total surface runoff the

Forest Hydrology Leon Bren, Devendra M. Amatya, Thomas M. Williams, Carmen de Jong, Ge Sun, 2025-10-16 Forests cover about a third of the world's land surface area They represent a distinct biotic community provide a living for many millions of people and provide fresh water to sustain communities Forests capture part of the precipitation and pass the remainder into the soil Some of this is then passed back to the atmosphere along with some to streams as a regulated outflow Forest cover is generally the preferred land use for clean water supplies recreation tourism and other ecosystem benefits around the world In many cases the value of the water exceeds the value of other forest products The discipline forest hydrology was developed in the 19th and 20th Century with the aim of putting such water cycling processes into a scientific framework incorporating forest watershed management The 21st Century has seen proliferations of new technologies that have changed society our living environment and this discipline Forests are also facing unprecedented threats from land conversion fire drought and the changing climate The discipline of forest hydrology must address these issues with innovation and new ideas This book is essential reading for graduate students professionals land managers practitioners and researchers with a good understanding of the basic principles of hydrology and hydrologic processes

Principles of Forest Hydrology John D. Hewlett, 1982 Students and professors of hydrology ecology land use management forest and range management soil science physical geography soil and water conservation and watershed management will welcome this revision of the 1969 edition of An Outline of Forest Hydrology by John D Hewlett and Wade L Nutter The student pursuing a career in forest and wildland resources soon learns that no science is more fundamental to the art of land management than hydrology but hydrology as a science traditionally has been subordinated to hydrology as technique Older texts have focused on methods and applications to the exclusion of principle occasionally leaving the hydrological effects of land use and vegetation to be interpreted from techniques rather than from knowledge of process Soil atmospheric and vegetal phases of the hydrologic cycle of have neglected in many texts intended for the college student Hewlett's new book focuses on natural processes and is intended to guide further study and to serve as a base for class lectures The subject matter is organized to introduce key ideas and principles and to provide consistent terminology and clear graphic material to aid the student in comprehending the complex literature of hydrology

Forest Hydrology

Mingteh Chang, 2006-05-25 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*. Now with the publication of a revised edition this volume adds information from recent studies to go even further in providing an introduction to forest hydrology that brings water resources and forest water relations into a single practical and comprehensive volume. Focusing on processes and general principles the first six chapters provide an introduction and basic background in water and water resources while the last seven chapters look at the impact of forests on water. Between these two groupings is a chapter that serves as an entry to the study of forest impacts on water resources describing forests and forest characteristics important to water circulation, sediment movement and stream habitat. This second edition also features new information on forests and flooding, forest and stream habitat, snow vaporization processes and GIS methods in hydrology research, examples on evaporation estimates and a new appendix on forest interception measurements. Employing examples and case studies the book provides tools to help natural resource managers play an active role in policymaking and land use planning and in developing partnerships with stakeholders. It also offers unique perspectives for addressing urban sprawl.

Forest Hydrology Devendra Amatya, 2016

The principles of forest hydrology were developed throughout the 20th century with the first book on forest hydrology published as *Principles of Forest Hydrology* by John D Hewlett and Wade L Nutter, University of Georgia, USA in 1969. In Europe this was followed in 1971 by the book *Wald Wachstum und Umwelt: Waldklima und Wasserhaushalt* (Forest Growth and Environment: Forest Climatology and Forest Hydrology) by G Mitscherlich, J D Sauerl, nder Verlag, Germany. However the context and concepts of forest landscape, land use and management and human and natural disturbances have since changed and are continually changing. Accordingly in recent years increasing attention has been paid towards advancing the science of forest hydrology to increase our understanding of forest hydrological processes, their interactions with other land uses and environments, their impacts on ecosystem functions and services in the face of changing climate and their appropriate application at the watershed or basin scale. Advances in computing, sensors and information technology have accelerated this trend in the past few decades. To keep up with the growing knowledge of forests and water in a changing environment the book *Watershed Hydrology* was published by Peter E Black, Prentice Hall in 1991 followed by a summary of recent advances in Canadian forest hydrology by Buttle et al 2000 in *Hydrological Processes* journal and a textbook for students *Forest Hydrology: An Introduction to Water and Forests* by Mingteh Chang, CRC Press, USA in 2003. An overview of a featured collection on forest hydrology in China was published by Sun et al 2008 in *Journal of the American Water Resources Association*. In 2011 a new book on *Forest Hydrology and Biogeochemistry* edited by D L Levia, D Carlyle Moses and T Tanaka, Springer was published linking hydrology to biogeochemistry. The newest one *Forest Hydrology and Catchment Management: An Australian Perspective* aimed primarily for students and land managers was published by our own co editor Leon Bren

Springer December 2014 **Forest Hydrology** William E. Sopper, Howard William Lull, 1967 **Forest Hydrology and Watershed** Fan-Rui Meng, Altaf Arain, Qiang Li, Michael Pisaric, 2019-08-20 Hydrological processes in forested watersheds are influenced by environmental physiological and biometric factors such as precipitation radiation temperature species type leaf area and extent and structure of forest ecosystems Over the past two centuries forest coverage and forest structures have been impacted globally by anthropogenic activities for example forest harvesting and conversion of forested landscapes for plantations and urbanization In addition since the industrial revolution climate change has resulted in profound impacts on forest ecosystems due to higher carbon dioxide CO₂ concentration or CO₂ fertilization warmer temperatures changes in frequency and intensity of extreme weather events and natural disturbances As a result hydrological processes in forested watersheds have been altered by these natural and anthropogenic factors and these changes are expected to accelerate due to future changing climatic conditions Hence understanding how various environmental physiological and physical drivers interactively influence hydrological and biogeochemical processes in forest ecosystems is critical for sustainable water supply in forested watersheds About 21% of the global population depends on water sources that originate in forested catchments where forest coverage larger than 30% Furthermore there are knowledge gaps in our understanding of the mechanism of hydrological and hydrochemical cycles in forested watersheds This Special Issue addresses these gaps in our knowledge and includes twelve papers in the following three major research themes in forest watershed areas **Forest Hydrology** Devendra Amatya, Thomas M. Williams, L. J. Bren, Carmen de Jong, 2016 *Forest Hydrology and Biogeochemistry* Delphis F. Levia, Darryl Carlyle-Moses, Tadashi Tanaka, 2011-06-15 This international rigorously peer reviewed volume critically synthesizes current knowledge in forest hydrology and biogeochemistry It is a one stop comprehensive reference tool for researchers and practitioners in the fields of hydrology biogeoscience ecology forestry boundary layer meteorology and geography Following an introductory chapter tracing the historical roots of the subject the book is divided into the following main sections Sampling and Novel Approaches Forest Hydrology and Biogeochemistry by Ecoregion and Forest Type Hydrologic and Biogeochemical Fluxes from the Canopy to the Phreatic Surface Hydrologic and Biogeochemical Fluxes in Forest Ecosystems Effects of Time Stressors and Humans The volume concludes with a final chapter that reflects on the current state of knowledge and identifies some areas in need of further research **Forest Hydrology and Watershed** Qiang Li, Altaf Arain, Fan-Rui Meng, Michael Pisaric, 2019 Hydrological processes in forested watersheds are influenced by environmental physiological and biometric factors such as precipitation radiation temperature species type leaf area and extent and structure of forest ecosystems Over the past two centuries forest coverage and forest structures have been impacted globally by anthropogenic activities for example forest harvesting and conversion of forested landscapes for plantations and urbanization In addition since the industrial revolution climate change has resulted in profound impacts on forest ecosystems due to higher carbon dioxide CO₂ concentration or CO₂ fertilization warmer

temperatures changes in frequency and intensity of extreme weather events and natural disturbances As a result hydrological processes in forested watersheds have been altered by these natural and anthropogenic factors and these changes are expected to accelerate due to future changing climatic conditions Hence understanding how various environmental physiological and physical drivers interactively influence hydrological and biogeochemical processes in forest ecosystems is critical for sustainable water supply in forested watersheds About 21% of the global population depends on water sources that originate in forested catchments where forest coverage larger than 30% Furthermore there are knowledge gaps in our understanding of the mechanism of hydrological and hydrochemical cycles in forested watersheds This Special Issue addresses these gaps in our knowledge and includes twelve papers in the following three major research themes in forest watershed areas

An Outline of Forest Hydrology John D. Hewlett, Wade L. Nutter, 1969 **Forest Hydrology and Catchment Management** Leon Bren, 2023-01-18 This book provides scientific evidence to underline the notion that forests offer the most reliable water catchments in the natural environment The unique Australian ecosystem provides valuable information on the water yields and hydro ecology of forests Insights can be transferred to other climate zones and conditions In this second edition the author puts a particular focus on the most prominent challenges of our time in relation to water management Ground salinity climate change and droughts have all been newly added to this updated edition One of the most important concepts is highlighting the accumulated contribution of smaller catchments and minor streams Finally readers will also get information on the economic dimension of water management With its incisive disciplined and quantitative and occasionally humorous approach this book helps scientists students and regulators to understand water driven conflicts and offers guidance on management

Forests and Water Henry W. Anderson, Marvin D. Hoover, Kenneth G. Reinhart, 1976 Forest Hydrology and Ecology at Coweeta Wayne T. Swank, D.A., Jr. Crossley, 2012-12-06 Coweeta is one of the oldest continuously operating laboratories of its type in the world For the first time a complete review and summary of more than 50 years study of the hydrological and ecological responses of baseline and managed Southern Appalachian hardwood forests at Coweeta is now supplied by this volume The long term research approach represents a continuum of theory experimentation and application using watersheds as landscape units of investigation Thus the information encompasses a wide range of interpretations and interests In addition to in depth analyses of terrestrial and stream processes the breadth of coverage includes historical perspectives and relevance of ecosystem science to management needs In a broader sense the Coweeta research effort is considered from a perspective of national and international forest hydrology and ecology programs

Hydrologic Effects of a Changing Forest Landscape National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Hydrologic Impacts of Forest Management, 2008-12-19 Of all the outputs of forests water may be the most important Streamflow from forests provides two thirds of the nation s clean water supply Removing forest cover accelerates the rate that precipitation becomes

streamflow therefore in some areas cutting trees causes a temporary increase in the volume of water flowing downstream This effect has spurred political pressure to cut trees to increase water supply especially in western states where population is rising However cutting trees for water gains is not sustainable increases in flow rate and volume are typically short lived and the practice can ultimately degrade water quality and increase vulnerability to flooding 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 This book identifies actions that scientists forest and water managers and citizens can take to help sustain water resources from forests

Forest Hydrology H. Lull,William E. Sopper,1967-01

Forest Hydrology Richard Lee,1980-03-02

Readings in Forest Hydrology Arthur R. Eschner,Peter E. Black,1975 **Forest Hydrology: Proceedings of a National Science Foundation Advanced Science Seminar Held at the Pennsylvania State University ... August 29 - September 10, 1965** philadelphia Seminar on forest hydrology (1965. s),1967

Forest Hydrology Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Forest Hydrology**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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