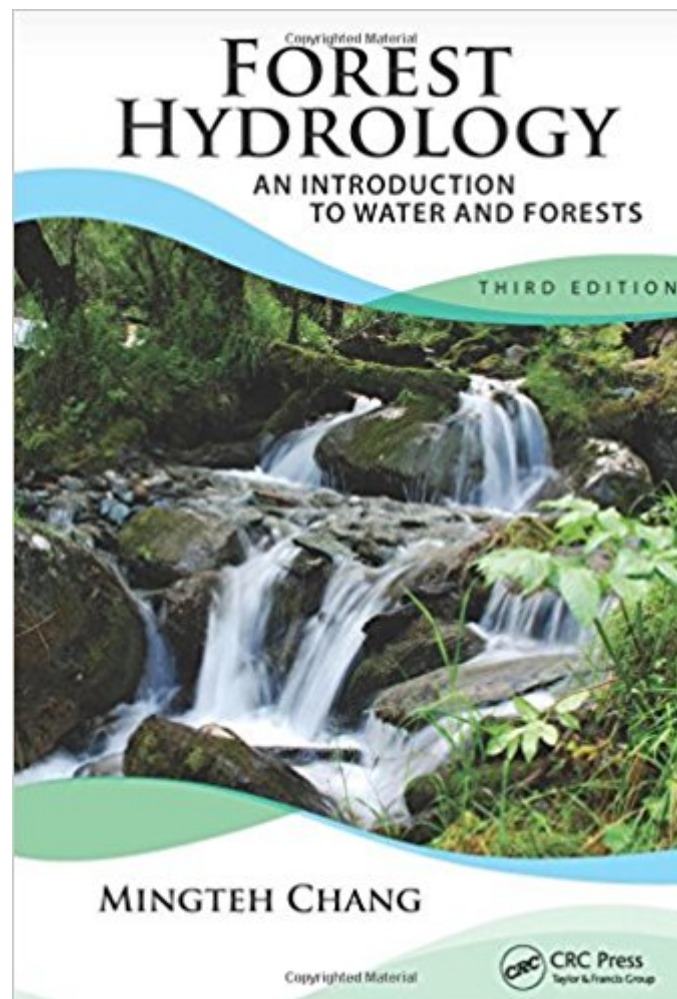




Ebook Directory
the best source of ebook

The book was found

Forest Hydrology: An Introduction To Water And Forests, Third Edition



Synopsis

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 major water resource area of the country. Any human activity in forested areas will inevitably disturb forest floors and destroy forest canopies, consequently affecting the quantity, quality, and timing of water resources. Thoroughly updated and expanded, *Forest Hydrology: An Introduction to Water and Forests*, Third Edition discusses the concepts, principles, and processes of forest and forest activity impacts on the occurrence, distribution, and circulation of water and the aquatic environment. Brings water resources and forest-water relations into a single, comprehensive textbook Focuses on the concepts, processes, and general principles in forest hydrology Covers functions, properties, and science of water; water distribution; forests and precipitation, vaporization, stream flow, and stream sediment Discusses watershed management planning and practical applications of forest hydrology in resource management In a single textbook, *Forest Hydrology: An Introduction to Water and Forests*, Third Edition comprehensively covers water and water resources issues, forest characteristics relevant to the environment, forest impacts in the hydrological cycle, watershed research, watershed management planning, and hydrologic measurements. With the addition of new chapters, new issues, and appendices, this new edition is a valuable resource for upper-level undergraduates in forest hydrology courses as well as professionals involved in water resources management and decision-making in forested watersheds.

Book Information

Hardcover: 595 pages

Publisher: CRC Press; 3 edition (November 1, 2012)

Language: English

ISBN-10: 143987994X

ISBN-13: 978-1439879948

Product Dimensions: 7 x 1.2 x 10.1 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #496,033 in Books (See Top 100 in Books) #110 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology](#) #137 in [Books > Science &](#)

Customer Reviews

"The third revised edition offers exhaustive information regarding concepts, processes and fundamental principles of forest hydrology. This publication discusses functional properties, distributions of water, forests and precipitation, humidity, runoff, soils and sedimentation and also research approaches in the forest and water. In addition, the watershed management and practical applications in forest hydrology and water resource managements are also discussed in this book."

—â€œ Nachrichten, Neue Publikationen, 2013 Praise for the First Edition A textbook for most forest hydrology courses should not only cover topics on forest impacts on water but also provide the basics of water properties, movement, and storage in the atmosphere, soil matrix, and surface water bodies. Putting both major topic areas in one manageable textbook requires trade-offs that do not dilute either subject area too much, but rather skillfully blend the two together. Mingteh Chang has done just that in writing this book.

—â€œ Richard C. Schultz, Professor of Forest Hydrology and Ecology, Iowa State University, in *Forest Science*, Vol. 49, No. 2 The book can be used as a text for students in agriculture, forestry, and land-resources management, and as a reference for foresters, rangers, geographers, watershed managers, biologists, agriculturalists, environmentalists, policy makers, engineers, and others who may need such background in their professions.

—â€œ Falhry A. Assaad, Consultant, Geologist, and Data Analyst

Mingteh Chang, PhD, is Regents Professor of Forest Hydrology and Professor Emeritus within the Arthur Temple College of Forestry and Agriculture at Stephen F. Austin State University in Nacogdoches, Texas.

The discussions on forest hydrology contained in these chapters are quite comprehensive, making this one of the most thorough forest hydrology texts I have read. This makes this text an excellent resource for anyone interested in forest hydrology. It is thoroughly annotated, making it a great reference as well. The material in the last chapter, especially the section on the calculations involved in the Wagon Wheel Gap study is an excellent presentation. I know of no other textbook that includes these techniques with a worked example and discussion of the same data set. The material contained in the appendix is also quite useful. Overall, this book is one of the most comprehensive available, providing readers with a thorough knowledge of the subject and an

understanding of management implications.

[Download to continue reading...](#)

Forest Hydrology: An Introduction to Water and Forests, Third Edition Pure Water: The Science of Water, Waves, Water Pollution, Water Treatment, Water Therapy and Water Ecology Hydrology for Engineers, Geologists, and Environmental Professionals, Second Edition: An Integrated Treatment of Surface, Subsurface, and Contaminant Hydrology Water Clarity Secrets for Ponds and Water Gardens: The Quick and Easy Way to Crystal Clear Water (Water Garden Masters Series Book 5) Fruit Infused Water - 80 Vitamin Water Recipes for Weight Loss, Health and Detox Cleanse (Vitamin Water, Fruit Infused Water, Natural Herbal Remedies, Detox Diet, Liver Cleanse) Third Eye: Third Eye Activation Mastery, Easy And Simple Guide To Activating Your Third Eye Within 24 Hours (Third Eye Awakening, Pineal Gland Activation, Opening the Third Eye) Wildlife, Forests and Forestry: Principles of Managing Forests for Biological Diversity (2nd Edition) Hiking North Carolina's National Forests: 50 Can't-Miss Trail Adventures in the Pisgah, Nantahala, Uwharrie, and Croatan National Forests (Southern Gateways Guides) Water, Water Everywhere, What & Why? : Third Grade Science Books Series: 3rd Grade Water Books for Kids (Children's Earth Sciences Books) Riches of the Rain Forest: An Introduction to the Trees and Fruits of the Indonesian and Malaysian Rain Forests Handbook of Weather, Climate and Water: Atmospheric Chemistry, Hydrology and Societal Impacts Ground-Water Hydrology and Hydraulics Ground and Surface Water Hydrology Ground Water Hydrology Environmental Hydrology, Third Edition Physical Hydrology, Third Edition If I Ran the Rain Forest: All About Tropical Rain Forests (Cat in the Hat's Learning Library) Country and Cottage Water Systems: A Complete Out-of-the-City Guide to On-Site Water and Sewage Systems, Including Pumps, Plumbing, Water Purification and Alternative Toilets Water Quality & Treatment: A Handbook on Drinking Water (Water Resources and Environmental Engineering Series) Water Is Water: A Book About the Water Cycle

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)