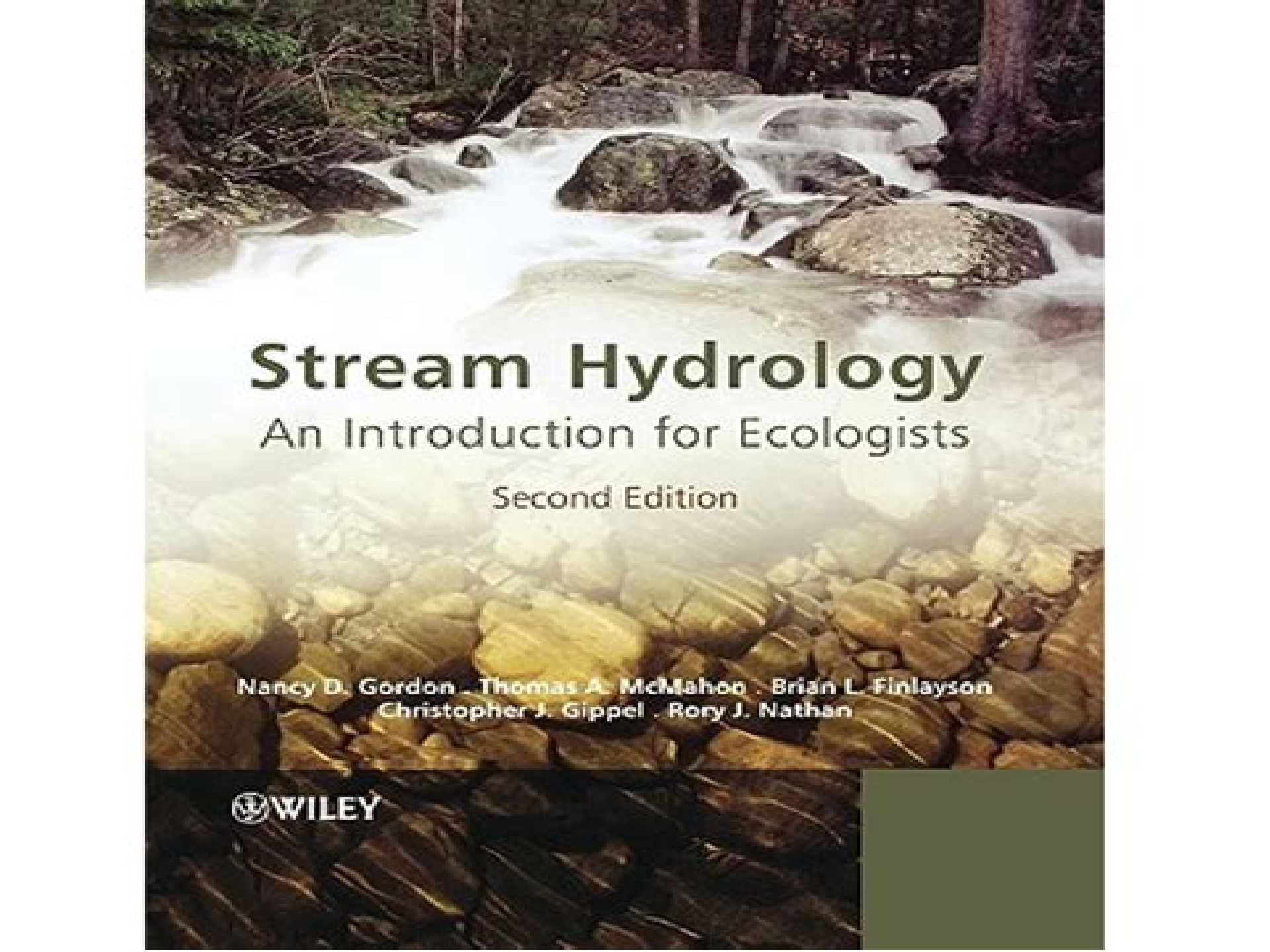


The background of the book cover is a photograph of a stream flowing over rocks in a forest. The water is white and frothy as it cascades over the rocks, creating a sense of movement. The rocks are dark and wet, and the surrounding forest is lush with green foliage. The overall tone is natural and serene.

Stream Hydrology

An Introduction for Ecologists

Second Edition

Nancy D. Gordon · Thomas A. McMahon · Brian L. Finlayson
Christopher J. Gippel · Rory J. Nathan

 WILEY

Stream Hydrology An Introduction For Ecologists

**Lunhui Lu, Dayong Zhao, Leonardo D.
Fernández, Zhe Li**



Stream Hydrology An Introduction For Ecologists:

Stream Hydrology Nancy D. Gordon, Thomas A. McMahon, Brian L. Finlayson, Christopher J. Gippel, Rory J. Nathan, 2004-06-18 Since the publication of the first edition 1994 there have been rapid developments in the application of hydrology geomorphology and ecology to stream management In particular growth has occurred in the areas of stream rehabilitation and the evaluation of environmental flow needs The concept of stream health has been adopted as a way of assessing stream resources and setting management goals *Stream Hydrology An Introduction for Ecologists* Second Edition documents recent research and practice in these areas Chapters provide information on sampling field techniques stream analysis the hydrodynamics of moving water channel form sediment transport and commonly used statistical methods such as flow duration and flood frequency analysis Methods are presented from engineering hydrology fluvial geomorphology and hydraulics with examples of their biological implications This book demonstrates how these fields are linked and utilised in modern scientific river management Emphasis on applications from collecting and analysing field measurements to using data and tools in stream management Updated to include new sections on environmental flows rehabilitation measuring stream health and stream classification Critical reviews of the successes and failures of implementation Revised and updated windows based AQUAPAK software This book is essential reading for 2nd 3rd year undergraduates and postgraduates of hydrology stream ecology and fisheries science in Departments of Physical Geography Biology Environmental Science Landscape Ecology Environmental Engineering and Limnology It would be valuable reading for professionals working in stream ecology fisheries science and habitat management environmental consultants and engineers

Stream Hydrology Nancy D. Gordon, Thomas A. McMahon, Brian L. Finlayson, Brian Finlayson, 1992 This user friendly guide to stream hydrology examines statistical sampling designs sources of data stream classification methods hydraulic properties of flowing water field data collection methods statistical and probabilistic analysis of data and methods for combining and relating hydrological and ecological data

Stream Ecology J. David Allan, María M. Castillo, 2007-08-17 A hugely important text for advanced undergraduates as well as graduates with an interest in stream and river ecology this second updated edition is designed to serve as a textbook as well as a working reference for specialists in stream ecology and related fields The book presents vital new findings on human impacts and new work in pollution control flow management restoration and conservation planning that point to practical solutions All told the book is expanded in length by some twenty five percent and includes hundreds of figures most of them new

Special Places Betty Roots, Donald Chant, Conrad Heidenreich, 2011-11-01 High Park Scarborough Bluffs the Humber Valley the Port Lands These are among the special places of Toronto Each is a unique ecosystem within the busy urban region Even though Torontonians think of the city as almost entirely built up savannah or wetlands are only a subway ride away *Special Places* explores the changing ecosystems of the Toronto area over this century looking at the environmental conditions that influence the whole region and at the surprising

range of plants and animals you can still find in many of its natural spaces Special Places explores the changing ecosystems of the Toronto area over this century looking at the environmental conditions that influence the whole region and at the surprising range of plants and animals you can still find in many of its natural spaces In Special Places a group of science professionals show how actions in one location produce ripples in every direction Changes in forest cover for example affect not only the organisms that live in the forest but also those that use it from time to time such as migrating birds and those that live in watersheds fed by water husbanded by forest cover Changes in bird populations cause changes in the populations of insects on which they feed changes in insect populations affect the plants on which they feed and so on As a new millennium arrives it is time to take stock of our effect on the world around us and to consider the consequences Special Places assesses how we can minimize the impact of human activity on the environment and even remedy some of the harm we have already done One way is to bridge the gap between scientists and decision makers by making the natural sciences more accessible to everyone Special Places was written at the initiative of the Royal Canadian Institute which is the oldest active scientific society in Canada and is dedicated to bringing the natural sciences to the public Richly illustrated and written for a general audience this book celebrates the glory and fragility of these interlocking ecosystems and helps us appreciate the uniqueness of the special places

General Technical Report RMRS ,1998 *Volunteer Stream Monitoring* ,1997 *Combined Sewer Overflows and the Multimetric Evaluation of Their Biological Effects* ,1996

River Ecology and Management Robert Naiman,Robert E. Bilby,2001-02-16 As the vast expanses of natural forests and the great populations of salmonids are harvested to support a rapidly expanding human population the need to understand streams as ecological systems and to manage them effectively becomes increasingly urgent The unfortunate legacy of such natural resource exploitation is well documented For several decades the Pacific coastal ecoregion of North America has served as a natural laboratory for scientific and managerial advancements in stream ecology and much has been learned about how to better integrate ecological processes and characteristics with a human dominated environment These in sightful but hard learned ecological and social lessons are the subject of this book Integrating land and rivers as interactive components of ecosystems and watersheds has provided the ecological sciences with impor tant theoretical foundations Even though scientific disciplines have begun to integrate land based processes with streams and rivers the institutions and processes charged with managing these systems have not done so successfully As a result many of the watersheds of the Pacific coastal ecoregion no longer support natural settings for environmental processes or the valuable natural resources those processes create An important role for scientists educators and decision makers is to make the integration between ecology and con sumptive uses more widely understood as well as useful for effective management

Microbial Diversity and Ecosystem Functioning in Fragmented Rivers Worldwide Lunhui Lu,Dayong Zhao,Leonardo D. Fernández,Zhe Li,2023-11-27 Dams or barriers are among the most significant anthropogenic threats to global freshwater ecosystems although they provide

invaluable services for shipping hydropower generation flood protection and storage of drinking and irrigation water River fragmentations due to dams and barriers lead the aquatic landscape into isolated river sections resulting in hydromorphological discontinuities along longitudinal or lateral gradients Fragmented river habitats are unstable They experience uncertain disturbances in both time and space with random and complex hydrological and environmental processes such as water flow particulate matter sedimentation reservoir regulation and terrestrial input The diversity composition functionality and activity of microbial communities are important indicators of river ecosystem functions and services Yet river fragmentations are likely to disrupt and reconstruct microbial communities redirecting the patterns of biogeochemical cycles of biogenic elements Methodology such as mathematical models is still limited to describing and elucidating microbial processes under changing hydrological environments in the fragmented rivers Thus how do the riverine microbial communities and ecosystem functions respond to the fragmentation in rivers This Research Topic represents a collective focus on microbial ecology functional diversity and new microbial modeling in fragmented rivers We wish to present new findings in community assembly mechanisms biotic interactions functional diversity and ecosystem functioning responses to the river fragmentations New perspectives will also provide us with deep insights into the ecological effects of river fragmentation This Research Topic aims to present the original research articles and reviews to provide new findings on microbial diversity and ecosystem functioning in fragmented rivers worldwide We welcome original research reviews mini reviews opinions methods hypotheses and theories and perspectives The directions include but are not limited to the following aspects The continuum of the microbial community in responses to dams or barriers Novel microbial community assembly mechanisms functional traits and biotic interactions in fragmented rivers at local regional and global scales Functional genes functional groups and functional diversity in driving biogenic element cycles Mathematical modeling in aquatic microbial ecology *Sampling Surface and Subsurface Particle-size Distributions in Wadable Gravel- and Cobble-bed Streams for Analyses in Sediment Transport, Hydraulics, and Streambed Monitoring* Kristin Bunte,2001

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