



Stream Hydrology

An Introduction for Ecologists

Second Edition

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Christopher J. Gippel · Rory J. Nathan

 WILEY

Stream Hydrology An Introduction For Ecologists

G. Bretschko, Jan Helešic



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

Riverine Ecology Volume 1 Susanta Kumar Chakraborty, 2021-03-01 This book is part of a two volume set that offers an innovative approach towards developing methods and tools for assigning conservation categories of threatened taxa and their conservation strategies by way of different phases of eco restoration in the context of freshwater river systems of tropical bio geographic zones The set provides a considerable volume of research on the biodiversity component of river ecosystems seasonal dynamics of physical chemical parameters geo hydrological properties types sources and modes of action of different types of pollution river restoration strategies and methodologies for the ongoing ecological changes of river ecosystems Volume 1 provides an in depth analysis of different theories with international relevance pertaining to the functioning of river ecosystems shaping their structure and contributing ecological services and includes the principles of riverine ecology such as biogeochemical cycles physiography hydrogeology and physico chemical parameters It covers the basic concepts and principles of water within riverine ecosystems and the

underlying ecological principles operating to ensure ecological stability and sustainability of the fluvial ecosystem The book explains the ecofunctionality of different geo morphological geo hydrological and physico chemical factors and processes in changing time scales and spaces with special emphasis on the tropical fresh water rivers in India **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 Laboratory Exercises for Freshwater Ecology John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports **Practical Field Ecology** C. Philip Wheeler, James R. Bell, Penny A. Cook, 2011-04-12 This book introduces experimental design and data analysis interpretation as well as field monitoring skills for both plants and animals Clearly structured throughout and written in a student friendly manner the main emphasis of the book concentrates on the techniques required to design a field based ecological survey and shows how to execute an appropriate sampling regime The book evaluates appropriate methods including the problems associated with various techniques and their inherent flaws e g low sample sizes large amount of field or laboratory work high cost etc This provides a resource base outlining details from the planning stage into the field guiding through sampling and finally through organism identification in the laboratory and computer based data analysis and interpretation The text is divided into six distinct chapters The first chapter covers planning including health and safety together with information on a variety of statistical techniques for examining and analysing data Following a chapter dealing with site characterisation and general aspects of species identification subsequent chapters describe the techniques used to survey and census particular groups of organisms The final chapter covers interpreting and presenting data and writing up the research The emphasis here is on appropriate wording of interpretation and structure and content of the report **Fresh Water** E. C. Pielou, 1998-10 Pielou

describes the natural history of fresh water a vital ingredient of the natural world exploring its sources and destinations how it moves over and under the earth and how it ends up in the atmosphere 81 line drawings **An Application of the Lotka-Volterra Model to Competition Between Two Lotic Grazers** Charles H. Elzinga,2000 Influence of Physical and Biotic Factors on Trout Production Dynamics in Southeastern Minnesota Streams Thomas Jacob Kwak,1993 **Transactions of the Kansas Academy of Science** Kansas Academy of Science,2002 *Advances in River Bottom Ecology* G. Bretschko,Jan Helešic,1998 **Archiv Für Hydrobiologie** ,2005 *Institute for Fisheries Research Report (Michigan. Institute for Fisheries Research)* ,2004 *Geograficheskii zhurnal* ,2007 **Disturbance Regimes and Life History Evolution** David Allen Lytle,2000 **Proceedings, Annual Summer Symposium of the American Water Resources Association** American Water Resources Association. Summer Symposium,1994 A Habitat Rating System for Non-wadeable Rivers of Michigan Jennifer G. Opdyke Wilhelm,2002 **Understanding Arizona's Riparian Areas** George Zaines,2007 *Ecology* ,1998 The Distribution of Brown Trout and Walleye in Relation to Habitat on an Impounded Reach of the Au Sable River, Michigan Jennifer A. Abdella,2001

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