



University of  
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# River networks



# River Networks

**Bruce L. Rhoads**



## **River Networks:**

**River Networks** Richard S. Jarvis, Michael J. Woldenberg, 1984      **The Distribution of Branches in River Networks** Ennio V. Giusti, William Joseph Schneider, 1965      *River Networks as Ecological Corridors* Andrea Rinaldo, Marino Gatto, Ignacio Rodriguez-Iturbe, 2020-10-22 River networks are critically important ecosystems This interdisciplinary book provides an integrated ecohydrological framework blending laboratory field and theoretical evidence that changes our understanding of river networks as ecological corridors It describes how the physical structure of the river environment impacts biodiversity species invasions population dynamics and the spread of waterborne disease State of the art research on the ecological roles of the structure of river networks is summarized including important studies on the spread and control of waterborne diseases biodiversity loss due to water resource management and invasions by non native species Practical implications of this research are illustrated with numerous examples throughout This is an invaluable go to reference for graduate students and researchers interested in river ecology and hydrology and the links between the two Describing new related research on spatially explicit modeling of the spread of waterborne disease this book will also be of great interest to epidemiologists and public health managers      **Guidelines for the Constitution of Ecological River Networks** Edit Wenger, Council of Europe. Committee for the Activities of the Council of Europe in the field of Biological and Landscape Diversity, 2002-01-01 The Pan European Biological Network is intended to ensure that ecosystems habitats populations of species and landscapes of European importance are maintained in a good state of conservation It aims to restore the biodiversity which is seriously endangered in Europe Water courses and the environments associated with them are natural corridors used by both animal species and humans With their great natural wealth connecting numerous elements within the corridor both longitudinally and laterally they are essential elements in the constitution of the Pan European Ecological Network      **River Confluences, Tributaries and the Fluvial Network** Stephen Rice, Andre Roy, Bruce Rhoads, 2008-07-31 River Confluences and the Fluvial Network brings together state of the art thinking on confluence dynamics tributary impacts and the links between processes at these scales and river network functions The book is unique in focus content scope and in bringing together engineering ecological and geomorphological approaches to the three key areas of river system science Taking a global approach this multi authored text features a team of carefully selected internationally renowned experts who have all contributed significantly to recent ground breaking advancements in the field Each chapter includes a comprehensive review of work to date highlighting recent discoveries and the main thrust of knowledge previously unpublished research and case studies challenges and questions detailed references as well as a forward looking assessment of the state of the science      *River Morphodynamics and Stream Ecology of the Qinghai-Tibet Plateau* Zhaoyin Wang, Zhiwei Li, Mengzhen Xu, Guoan Yu, 2016-03-24 This book focuses on the river morphodynamics and stream ecology of the Qinghai Tibet Plateau The objective of the book is to summarize and synthesize the recent studies based on field surveys undertaken

in the period 2007-2014 This book was written to serve as a graduate level text for a course in river dynamics and stream ecology and as a reference

*Complex Networks* Guido Caldarelli, 2010-11-30 The field of complex network exploded since the 1990s the number of publications in a variety of different areas has grown exponentially and practically every discipline started to recognize the presence of these mathematical structures in its area of research Actually almost any system from the nowadays traditional example of the Internet to complex patterns of metabolic reactions can be analyzed through the graph theory In its simplest and non rigorous definition a graph is a mathematical object consisting of a set of elements vertices and a series of links between these vertices edges This is of course a very general description and as any mathematical abstraction the idea is to discard many of the particular properties of the phenomenon studied Nevertheless this modeling is remarkably accurate for a variety of situations Vertices can be persons related by friendship or acquaintances relations Vertices can be proteins connected with one another if they interact in the cell Networks have always existed in Nature of course but it is fair to say that given the present technological explosion they became more and more important Starting from the Internet the web of connections between computers we started to link and share our documents through web applications and we start to get connected with a number of persons larger than usual It is this revolution in our daily habit that made natural thinking of networks in science and research Once this has been realized it became natural to see the cell as a network of molecular events from chemical reactions to gene expressions The point is to establish if this new perspective can help researchers in finding new results and by understanding the development of these phenomena and possibly control their evolution We believe that this is the case and in the following we shall provide the evidence of that Together with applications there are of course true scientific questions attached to network theory Consider the various ways in which the edges are distributed among the vertices even by keeping the number of edges and vertices constant we have many different patterns possible Interestingly some features used to describe these shapes are not related to the particular example considered but instead they are universal That is to say they can be found in almost any network around In this book we introduce the subject of complex networks and we present the structure of the associated topics that range from social science to biology and finance We start by considering the mathematical foundations of networks and we then move to an overview of the various applications

*Fractal River Basins* Ignacio Rodríguez-Iturbe, Andrea Rinaldo, 1997 This book provides a theoretical basis to the arrangement of river basins and networks

*Networks* Mark Newman, 2010-03-25 This book brings together advances in mathematics physics computer science biology and social network analysis to present a comprehensive picture of the scientific study of networks The book includes discussion of computer networks social networks biological networks and others and an introduction to the mathematics of network theory

**River Dynamics** Bruce L. Rhoads, 2020-04-29 Rivers are important agents of change that shape the Earth's surface and evolve through time in response to fluctuations in climate and other environmental conditions They are fundamental in

landscape development and essential for water supply irrigation and transportation This book provides a comprehensive overview of the geomorphological processes that shape rivers and that produce change in the form of rivers It explores how the dynamics of rivers are being affected by anthropogenic change including climate change dam construction and modification of rivers for flood control and land drainage It discusses how concern about environmental degradation of rivers has led to the emergence of management strategies to restore and naturalize these systems and how river management techniques work best when coordinated with the natural dynamics of rivers This textbook provides an excellent resource for students researchers and professionals in fluvial geomorphology hydrology river science and environmental policy

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