

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.

Bruce Rhoads is Professor of Geography and Geographic Information Science at the University of Illinois, Urbana-Champaign. He has been actively engaged in research on river dynamics for over 35 years. He has been a Guggenheim fellow and has received awards for research excellence and a distinguished research career from the American Association of Geographers. He is a fellow of the American Association of Geographers and the American Association for the Advancement of Science.

"... a comprehensive and concise overview of contemporary knowledge of river process and form ... Rhoads is skilled at providing clear explanations of complex phenomena ... an engaging textbook for advanced undergraduate and graduate courses, and a resource for river-management professionals."

ELLEN WOHL, *Colorado State University*

"... a superb textbook on fluvial geomorphology – the book we have long been waiting for in this field ... provides detailed analysis and information on all the main topics in fluvial geomorphology, as well as a few not usually covered well ... a rich source of information for undergraduates, for more specialist courses, and for fluvial management. I shall immediately recommend it as the main text for my own taught course in fluvial geomorphology."

JANET HOOKE, *University of Liverpool*

"Bruce Rhoads draws on his unique experience to comprehensively review concepts in river dynamics ... will be of great benefit to students, scientists, and managers of rivers by blending field and laboratory studies with theory and application."

MARWAN HASSAN, *University of British Columbia*

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