# Contents

Integrated Floodplain Management, Environmental Change, and Geomorphology: Problems and Prospects ........................................ 1  
Paul F. Hudson and Hans Middelkoop

Sand and Gravel on the Move: Human Impacts on Bed-Material Load Along the Lower Rhine River .............................................................. 9  
R. M. Frings

Channel Responses to Global Change and Local Impacts: Perspectives and Tools for Floodplain Management, Ebro River and Tributaries, NE Spain............................................................................. 27  
Alfredo Ollero, Askoa Ibisate, David Granado and Rafael Real de Asua

Impact Scales of Fluvial Response to Management along the Sacramento River, California, USA: Transience Versus Persistence ...... 53  
Michael Bliss Singer

Flooding, Structural Flood Control Measures, and Recent Geomorphic Research along the Red River, Manitoba, Canada............... 87  
Gregory R. Brooks and Scott St. George

Promoting Atmospheric-River and Snowmelt-Fueled Biogeomorphic Processes by Restoring River-Floodplain Connectivity in California’s Central Valley .................................................. 119  
Joan L. Florsheim and Michael D. Dettinger

Geomorphic Perspectives of Managing, Modifying, and Restoring a River with Prolonged Flooding: Kissimmee River, Florida, USA ................................................................................................... 143  
Joann Mossa
Managing the Mississippi River Floodplain: Achieving Ecological Benefits Requires More Than Hydrological Connection to the River
Harold L. Schramm, William B. Richardson and Brent C. Knights

The Role of Floodplain Restoration in Mitigating Flood Risk, Lower Missouri River, USA
Robert B. Jacobson, Garth Lindner and Chance Bitner

Post-dam Channel and Floodplain Adjustment along the Lower Volga River, Russia
Hans Middelkoop, A.M. Alabyan, D.B. Babich and V.V. Ivanov

Embanking the Lower Danube: From Natural to Engineered Floodplains and Back
Ştefan Constantinescu, Diana Achim, Ioan Rus and Liviu Giosan

Historical Development and Integrated Management of the Rhône River Floodplain, from the Alps to the Camargue Delta, France
Jean-Paul Bravard and Pauline Gaydou

The Role of Floodplain Geomorphology in Policy and Management Decisions along the Lower Mississippi River in Louisiana
Richard H. Kesel and Molly McGraw

The Palimpsest of River-Floodplain Management and the Role of Geomorphology
Paul F. Hudson and Hans Middelkoop

Index
Geomorphic Approaches to Integrated Floodplain Management of Lowland Fluvial Systems in North America and Europe
Hudson, P.; Middelkoop, H. (Eds.)
2015, IX, 356 p. 132 illus., 78 illus. in color., Hardcover