

River Channel Management

Towards sustainable catchment
hydrosystems

Peter W. Downs and
Kenneth J. Gregory



River Channel Management Towards Sustainable Catchment Hydrosystems

G. Mathias Kondolf, Hervé Piégay



River Channel Management Towards Sustainable Catchment Hydrosystems:

River Channel Management Peter Downs, Ken Gregory, 2014-02-24 River Channel Management is the first book to deal comprehensively with recent revolutions in river channel management. It explores the multi disciplinary nature of river channel management in relation to modern management techniques that bear the background of the entire drainage basin in mind. It uses channel restoration where appropriate and are designed to be sustainable. River Channel Management is divided into five sections. The Introduction outlines the need for river channel management. Retrospective Review offers an overview of twentieth century engineering methods and the ways that river channel systems operate. Realisation explains how greater understanding of river channel adjustments, channel hazards and river basin planning created a context for twenty first century management. Requirements for Management explains and examines environmental assessment, restoration based approaches and methods that work towards design with nature. Final Revision speculates about prospects for twenty first century river channel management. River Channel Management is written for higher level undergraduates and for postgraduates in geography, ecology, engineering, planning, geology and environmental science for professionals involved in river channel management and for staff in environmental agencies.

River Channel Management Peter William Downs, Kenneth John Gregory, 2004 River Channel Management is the first book to deal comprehensively with recent revolutions in river channel management. It explores the multi disciplinary nature of river channel management in relation to modern management techniques that bear the background of the entire drainage basin in mind. It uses channel restoration where appropriate and are designed to be sustainable. River Channel Management is divided into five sections. The Introduction outlines the need for river channel management. Retrospective Review offers an overview of twentieth century engineering methods and the ways that river channel systems operate. Realisation explains how greater understanding of river channel adjustments, channel hazards and river basin planning created a context for twenty first century management. Requirements for Management explains and examines environmental assessment, restoration based approaches and methods that work towards design with nature. Final Revision speculates about prospects for twenty first century river channel management. River Channel Management is written for higher level undergraduates and for postgraduates in geography, ecology, engineering, planning, geology and environmental science for professionals involved in river channel management and for staff in environmental agencies.

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Atkinson, 2013-09-05 Fundamentals of the Physical Environment has established itself as a well respected core introductory book for students of physical geography and the environmental sciences Taking a systems approach it demonstrates how the various factors operating at Earth's surface can and do interact and how landscape can be used to decipher them The nature of the earth its atmosphere and its oceans the main processes of geomorphology and key elements of ecosystems are also all explained The final section on specific environments usefully sets in context the physical processes and human impacts This fourth edition has been extensively revised to incorporate current thinking and knowledge and includes a new section on the history and study of physical geography an updated and strengthened chapter on climate change 9 and a strengthened section on the work of the wind a revised chapter 15 on cryosphere systems glaciers ice and permafrost a new chapter 23 on the principles of environmental reconstruction a new joint chapter 24 on polar and alpine environments a key new joint chapter 28 on current environmental change and future environments new material on the Earth System and cycling of carbon and nutrients themed boxes highlighting processes systems applications new developments and human impacts a support website at www.routledge.com/textbooks/9780415395168 with discussion and essay questions chapter summaries and extended case studies Clearly written well structured and with over 450 informative colour diagrams and 150 colour photographs this text provides students with the necessary grounding in fundamental processes whilst linking these to their impact on human society and their application to the science of the environment **Routledge Handbook of Ecological**

and Environmental Restoration Stuart K. Allison, Stephen D. Murphy, 2017-05-18 Ecological restoration is a rapidly evolving discipline that is engaged with developing both methodologies and strategies for repairing damaged and polluted ecosystems and environments During the last decade the rapid pace of climate change coupled with continuing habitat destruction and the spread of non native species to new habitats has forced restoration ecologists to re evaluate their goals and the methods they use This comprehensive handbook brings together an internationally respected group of established

and rising experts in the field The book begins with a description of current practices and the state of knowledge in particular areas of restoration and then identifies new directions that will help the field achieve increasing levels of future success Part I provides basic background about ecological and environmental restoration Part II systematically reviews restoration in key ecosystem types located throughout the world In Part III management and policy issues are examined in detail offering the first comprehensive treatment of policy relevance in the field while Part IV looks to the future Ultimately good ecological restoration depends upon a combination of good science policy planning and outreach all issues that are addressed in this unrivalled volume

Tools in Fluvial Geomorphology G. Mathias Kondolf, Hervé Piégay, 2016-06-13

Fluvial Geomorphology studies the biophysical processes acting in rivers and the sediment patterns and landforms resulting from them It is a discipline of synthesis with roots in geology geography and river engineering and with strong interactions with allied fields such as ecology engineering and landscape architecture This book comprehensively reviews tools used in fluvial geomorphology at a level suitable to guide the selection of research methods for a given question Presenting an integrated approach to the interdisciplinary nature of the subject it provides guidance for researchers and professionals on the tools available to answer questions on river restoration and management Thoroughly updated since the first edition in 2003 by experts in their subfields the book presents state of the art tools that have revolutionized fluvial geomorphology in recent decades such as physical and numerical modelling remote sensing and GIS new field techniques advances in dating tracking and sourcing statistical approaches as well as more traditional methods such as the systems framework stratigraphic analysis form and flow characterisation and historical analysis This book Covers five main types of geomorphological questions and their associated tools historical framework spatial framework chemical physical and biological methods analysis of processes and forms and future understanding framework Provides guidance on advantages and limitations of different tools for different applications data sources equipment and supplies needed and case studies illustrating their application in an integrated perspective It is an essential resource for researchers and professional geomorphologists hydrologists geologists engineers planners and ecologists concerned with river management conservation and restoration It is a useful supplementary textbook for upper level undergraduate and graduate courses in Geography Geology Environmental Science Civil and Environmental Engineering and interdisciplinary courses in river management and restoration

River Science David J. Gilvear, Malcolm T. Greenwood, Martin C. Thoms, Paul J. Wood, 2016-03-03

River Science is a rapidly developing interdisciplinary field at the interface of the natural sciences engineering and socio political sciences It recognises that the sustainable management of contemporary rivers will increasingly require new ways of characterising them to enable engagement with the diverse range of stakeholders This volume represents the outcome of research by many of the authors and their colleagues over the last 40 years and demonstrates the integral role that River Science now plays in underpinning our understanding of the functioning of natural ecosystems and how societal demands

and historic changes have affected these systems The book will inform academics policy makers and society in general of the benefits of healthy functioning riverine systems and will increase awareness of the wide range of ecosystem goods and services they provide **Earth System Processes and Disaster Management** Rajiv Sinha,Rasik Ravindra,2012-08-14 One

of the fundamental goals of earth system science research is to adopt a more holistic view of the earth as a system comprising different domains The Society of Earth Scientists has brought out this multidisciplinary publication to emphasize the need of an integrated approach to understand the Earth system It focuses on natural disasters and in particular on climate change and its effects in Asia and understanding the significance of these developments within the context of the paleo climatic record The later sections of the book then focus on other types of natural disasters as well as those induced by human interaction with our environment **The SAGE Handbook of Geomorphology** Kenneth J Gregory,Andrew S

Goudie,2011-06-13 Geomorphology is the study of the Earth s diverse physical land surface features and the dynamic processes that shape these features Examining natural and anthropogenic processes The SAGE Handbook of Geomorphology is a comprehensive exposition of the fundamentals of geomorphology that examines form process and applications of the discipline Organized into five substantive sections the Handbook is an overview of Foundations and Relevance including the nature and scope of geomorphology the origins and development of geomorphology the role and character of theory in geomorphology geomorphology and environmental management and geomorphology and society Techniques and Approaches including observations and experiments geomorphological mapping the significance of models process and form dating surfaces and sediment remote sensing in geomorphology GIS in geomorphology biogeomorphology human activity Process and Environment including the evolution of regolith weathering fluids flows and fluxes sediment transport and deposition hill slopes riverine environments glacial geomorphology periglacial environments coastal environments aeolian environments tropical environments karst and karst processes Environmental Change including landscape evolution and tectonics interpreting quaternary environments environmental change disturbance and responses to geomorphic systems Conclusion including challenges and perspectives and a concluding review The Handbook has contributions from 48 international authors and was initially organized by the International Association of Geomorphologists This will be a much used and much cited reference for researchers in Geomorphology Physical Geography and the Environmental Sciences *Ecological*

Significance of River Ecosystems Sughosh Madhav,Shyam Kanhaiya,Arun Lal Srivastav,Virendra Bahadur Singh,Pardeep Singh,2022-01-12 Ecological Significance of Riparian Ecosystems Challenges and Management Strategies examines the current issues related to river ecosystems their environmental importance pollution issues and potential management strategies The book is divided into 4 key themes Basics of river ecosystem Natural phenomenon of river ecosystem Human induced problems of river ecosystem and Management measures for the river ecosystem Through these four themes the contributors present both practical and theoretical aspects of river ecosystem in changing climate An emphasis has been

made on the recent research of climate change and its impact on the river ecosystem River ecosystems have tremendous potential to store CO₂ however with changing climatic and anthropogenic activities these habitats are under threat and river ecosystems are losing the very vital service of storing carbon Unlike well documented terrestrial biodiversity the biodiversity in aquatic ecosystems is still unrecognized to some extent Presents an understanding of the biogeochemical processes of river ecosystems achieved by food webs and diverse biogeochemical processes Covers sediment dynamics and nutrient chemistry hot topics in river ecosystems Includes environmental pollution issues in river ecosystems from various anthropogenic activities

Key Concepts in Geography Nicholas Clifford, Sarah Holloway, Stephen P Rice, Gill Valentine, 2008-12-12 This book clearly outlines key concepts that all geographers should readily be able to explain It does so in a highly accessible way It is likely to be a text that my students will return to throughout their degree Dr Karen Parkhill Bangor University The editors have done a fantastic job This second edition is really accessible to the student and provides the key literature in the key geographical terms of scale space time place and landscape Dr Elias Symeonakis Manchester Metropolitan University An excellent introductory text for accessible overviews of key concepts across human and physical geography Professor Patrick Devine Wright Exeter University Including ten new chapters on nature globalization development and risk and a new section on practicing geography this is a completely revised and updated edition of the best selling standard student resource *Key Concepts in Geography* explains the key terms space time place scale landscape that define the language of geography It is unique in the reference literature as it provides in one volume concepts from both human geography and physical geography Four introductory chapters on different intellectual traditions in geography situate and introduce the entries on the key concepts Each entry then comprises a short definition a summary of the principal arguments a substantive 5 000 word discussion the use of real life examples and annotated notes for further reading Written in an accessible way by established figures in the discipline the definitions provide thorough explanations of all the core concepts that undergraduates of geography must understand to complete their degree

Resilience and Riverine Landscapes Martin Thoms, Ian Fuller, 2023-11-28 *Resilience and Riverine Landscapes* presents contributed chapters from global experts in Riverine Landscapes making it the most comprehensive reference available on the topic The book explores why rivers are ideal landscapes to study resilience and why studying rivers from a resilience perspective is important for our biophysical understanding of these landscapes and for society The book focuses on the biophysical character of resilience in riverine landscapes providing an interdisciplinary perspective of the structure function and interactions of riverine landscapes and the ecosystems they contain The editors conclude by proposing a research agenda for the future emphasizing the need for transdisciplinary research across a range of spatial and temporal scales and research domains Presents the resilience of rivers with both a theoretical and applied focus Includes case studies from a wide geographical base allowing for a full range of viewpoints Showcases how resilience is being incorporated into the study and management of riverine

landscapes Includes a transdisciplinary focus on riverine landscapes from theory to applied and from biophysical to social ecological systems **Riverine Ecosystem Management** Stefan Schmutz, Jan Sendzimir, 2018-05-08 This open access book surveys the frontier of scientific river research and provides examples to guide management towards a sustainable future of riverine ecosystems Principal structures and functions of the biogeosphere of rivers are explained key threats are identified and effective solutions for restoration and mitigation are provided Rivers are among the most threatened ecosystems of the world They increasingly suffer from pollution water abstraction river channelisation and damming Fundamental knowledge of ecosystem structure and function is necessary to understand how human activities interfere with natural processes and which interventions are feasible to rectify this Modern water legislation strives for sustainable water resource management and protection of important habitats and species However decision makers would benefit from more profound understanding of ecosystem degradation processes and of innovative methodologies and tools for efficient mitigation and restoration The book provides best practice examples of sustainable river management from on site studies European wide analyses and case studies from other parts of the world This book will be of interest to researchers in the field of aquatic ecology river system functioning conservation and restoration to postgraduate students to institutions involved in water management and to water related industries **Fundamentals of Fluvial Geomorphology** Ro Charlton, 2007-11-12 Fundamentals of Fluvial Geomorphology will be an indispensable introductory text for first and second year undergraduates providing a clear understanding of how the fluvial system operates at different spatial and temporal scales **Geomorphic Analysis of River Systems** Kirstie A. Fryirs, Gary J. Brierley, 2012-09-26 Filling a niche in the geomorphology teaching market this introductory book is built around a 12 week course in fluvial geomorphology Reading the landscape entails making sense of what a riverscape looks like how it works how it has evolved over time and how alterations to one part of a catchment may have secondary consequences elsewhere over different timeframes These place based field analyses are framed within their topographic climatic and environmental context Issues and principles presented in the first part of this book provide foundational understandings that underpin the approach to reading the landscape that is presented in the second half of the book In reading the landscape detective style investigations and interpretations are tied to theoretical and conceptual principles to generate catchment specific analyses of river character behaviour and evolution including responses to human disturbance This book has been constructed as an introductory text on river landscapes providing a bridge and or companion to quantitatively framed or modelled approaches to landscape analysis that are addressed elsewhere Key principles outlined in the book emphasise the importance of complexity contingency and emergence in interpreting the character behaviour and evolution of any given system The target audience is second and third year undergraduate students in geomorphology hydrology earth science and environmental science as well as river practitioners who use geomorphic understandings to guide scientific and or management applications The primary focus of Kirstie and Gary s research and teaching entails the

use of geomorphic principles as a tool with which to develop coherent scientific understandings of river systems and the application of these understandings in management practice Kirstie and Gary are co developers of the River Styles Framework and Short Course that is widely used in river management decision making and training Additional resources for this book can be found at www.wiley.com/go/fryirs_riversystems

The Lower Damodar River, India Kumkum Bhattacharyya, 2011-03-29 Interweaving the human aspects of river control with analysis of hydro physical data including historical data over the last few centuries this monograph is a comprehensive evaluation of the Damodar's lower reaches While the Damodar River isn't an exceptional tropical river nor does it feature classic examples of river control structures it is unusual and worthy of study due to the fact that nowhere else in the tropical world have riverine sandbars been used as a resource base as well as for permanent settlements Based on their knowledge of river stages the inhabitants have fine tuned their land use to flood events applying a concept of flood zoning to the riverbed Every available space has been utilized rationally and judiciously This rare human environmental study analyzes the remarkable way in which immigrants unfamiliar with the riverine environment have adapted to the altered hydrologic regime of the river In doing so they have demonstrated a sophisticated understanding of the flood regime and the vagaries of an unpromising environment in their land use cropping and settlement patterns Spurred on by restricted social and economic mobility and sometimes political constraints these self settled refugees have learned to adapt to their environment and live with the floods Bhattacharyya's text is particularly timely as anthropogenic processes of this kind have not been adequately studied by geographers

Gravel Bed Rivers 6 H. Habersack, H. Piegay, M. Rinaldi, 2011-09-22 Based on the interdisciplinary approaches between earth science engineering physical geography ecology and management this text focuses on the theoretical questions case studies challenges and constraints taken from river restoration It is illustrated with reports of new ground breaking research covering spatial and temporal scales of physical processes in river catchments coupling catchment and fluvial processes grain dynamics and fluvial forms and on geo ecology and restoration in mountain gravel bed river environments Each chapter includes discussions and comments providing experience and feedback from the fundamental research This book covers scales of analysis for gravel bed rivers physics and modeling of processes at local and point scales sediment delivery and storage eco geography and eco hydraulics and channel management and restoration Major topics in the field are presented by recognized scientific leaders Chapters cover theories practices and methodologies in river management and restoration Interdisciplinary approach includes case studies on new ground breaking research

[The Global Casino: An Introduction to Environmental Issues, Fourth Edition](#) Nick Middleton, 2013-11-26 The Global Casino is a compelling introduction to environmental issues which links the physical environment to its political social and economic contexts Case studies from around the globe are used to illustrate key environmental issues from global warming and deforestation to natural hazards and soil erosion The book highlights the underlying causes behind environmental problems including human actions and emphasises the potential

for solutions In line with contemporary international trends emphasis is placed on the critical concept of sustainable development This new edition has been thoroughly revised and updated with the introduction of new illustrative material and up to the minute case studies on topics such as endangered deep sea species the global uptake of unleaded petrol geothermal energy in Iceland genocide in Rwanda and the Indian Ocean tsunami of 2004 Particularly useful features for students include points for discussion at the end of each chapter as well as a comprehensive glossary The lists of key readings and websites again linked specifically to the content of each chapter have been fully updated and expanded The Global Casino is the essential course companion for students of the environment geography earth sciences and development studies The Palgrave Handbook of Critical Physical Geography Rebecca Lave,Christine Biermann,Stuart N. Lane,2018-04-04 This handbook is recognition of the need to better integrate physical and human geography It combines a collection of work and research within the new field of Critical Physical Geography which gives critical attention to relations of social power with deep knowledge of a particular field of biophysical science Critical Physical Geography research accords careful attention to biophysical landscapes and the power relations that have increasingly come to shape them and to the politics of environmental science and the role of biophysical inquiry in promoting social and environmental justice The Palgrave Handbook of Critical Physical Geography lays out the scope and guiding principles of Critical Physical Geography research It presents a carefully selected set of empirical work demonstrating the range and intellectual strength of existing integrative work in geography research This handbook is the first of its kind to cover this emerging discipline and will be of significant interest to students and academics across the fields of geography the environment and sustainability

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