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TESSA MAXIMO

Southern African Geomorphology CRC Press
 Examines the processes operating in the headwaters and main channels of ephemeral rivers in semi-arid environments and includes coverage of current fieldwork investigations, modeling approaches, and management issues. focuses on dryland channel networks and processes presents a historical framework for research discusses examples of current studies and evaluates contemporary modelling approaches Emphasis is on the Mediterranean region, with comparisons to other dryland regimes eg California, Australia, Chile.
Dryland Rivers Routledge
 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.
Geomorphology in the Anthropocene Elsevier
 Sedimentology has seen many significant advances and changes over the past 40 years, ranging from facies modelling to

sequence stratigraphy; chemostratigraphy to basin analysis; and the integration of studies of physical, chemical and, increasingly, biological processes in the interpretation and prediction of sedimentary environments and products. The subject is becoming ever more interdisciplinary and applied, and now has far more links to other physical sciences. Research and debate are continuing afresh as we move into this new interdisciplinary phase and promise many developments and increased uses of our subject. Now seemed a good time to publish a series of review papers concerning some key current areas of research. We hope that these papers will provide comprehensive starting points for those wishing to become acquainted with an area, act as stimuli for debate, and provide awareness and ideas for future research avenues. No issue of this sort can, of course, ever be truly comprehensive in its coverage: these reviews concern only selected snippets from the wide scope of sedimentology and each has, of necessity, been selective in its own area.

Handbook of Hydraulic Geometry Springer
 Sponsored by the Northeastern Division, American Fisheries Society.

Rivers and Floodplains John Wiley & Sons
 Megaflooding is the sudden discharge of exceptional volumes of water. Megafloods have significantly altered the terrain of Earth and Mars, and may have acted as triggers for climate change on these planets. Recently, research into megaflooding has made important advances: on Earth, real-time measurements of contemporary floods in Iceland complement research into older and larger terrestrial floods, while on Mars terabytes of data from several spacecraft orbiting that planet are dramatically revising our view of flooding there. Beginning with a historical overview of flood science, the book presents sections on morphology and mechanisms, flood sedimentology, and modelling, each illustrated with examples from Earth and Mars. By juxtaposing terrestrial and Martian research, this volume creates a unique synthesis to further our understanding of these enormous paleoflood events. It is an invaluable reference for researchers and students of hydrology, geomorphology, sedimentology and planetary science, as well as environmental and hydraulic engineers.

Megaflooding on Earth and Mars John Wiley & Sons
 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.
Global Continental Changes John Wiley & Sons
 Rivers and Floodplains is concerned with the origin, geometry, water flow, sediment transport, erosion and deposition associated with modern alluvial rivers and floodplains, how they vary in time and space, and how this information is used to interpret deposits of ancient rivers and floodplains. There is specific reference to the types and lifestyles of organisms associated with fluvial environments, human interactions with rivers and floodplains, associated environmental and engineering concerns, as well as the economic aspects of fluvial deposits, particularly the modeling of fluvial hydrocarbon reservoirs and aquifers. Methods of studying rivers and floodplains and their deposits are also discussed. Although basic principles are emphasized, many examples are detailed. Particular emphasis is placed on how an understanding of the nature of modern rivers and floodplains is required before any problems concerning rivers and floodplains, past or present, can be addressed rationally. Rivers and Floodplains is designed as a core text for senior undergraduate and graduate students studying modern or ancient fluvial environments, particularly in earth sciences, environmental sciences and physical geography, but also in civil and agricultural engineering. College teachers, researchers, and practising professionals will also find the book an invaluable reference. Presents a process-based approach, which is relevant to modern curricula. Discusses methods of studying rivers and floodplains and their deposits. Provides many detailed examples throughout the text. Emphasises the basic principles of this subject. As the first synthesis of this entire field, it will be a must-have for all students studying modern or ancient fluvial environments. Teachers, researchers and practising professionals will find this an invaluable reference tool. Rivers and Floodplains will also be of interest to geologists, geographers and engineers.
Climate Change in Deserts John Wiley & Sons
 A cross-border approach to exploration, appraisal and development is important in mature basins such as the North Sea, where the 'low hanging fruit' have long gone. This approach emphasizes the need to see the basin as one geological entity, in order to maximize economic recovery and prepare the area for the energy transition. This volume offers an up-to-date, 'geology-without-borders' view of the stratigraphy, sedimentology, tectonics and oil-and-gas exploration trends of the entire North Sea basin, along with the challenges associated with differences in data continuity and nomenclature across median lines. This

volume includes overviews of cross-border play statistics, lithostratigraphic naming conventions and exploration performance through to new facies models for cross-border areas. As such, this volume will be a valuable reference for every geoscientist working in the North Sea for years to come. *Challenges for Diadromous Fishes in a Dynamic Global Environment* IAHS Press

About one-third of the Earth's land surface experiences a desert climate, and this area supports approximately 15% of the planet's population. This percentage continues to grow, and with this growth comes the need to acquire and apply an understanding of desert geomorphology. Such an understanding is vital in managing scarce and fragile resources and in mitigating natural hazards. This authoritative reference book is comprehensive in its coverage of the geomorphology of desert environments, and is arranged thematically. It begins with an overview of global deserts, proceeds through treatments of weathering, hillslopes, rivers, piedmonts, lake basins, and aeolian surfaces, and concludes with a discussion of the role of climatic change. Written by a team of international authors, all of whom are active in the field, the chapters cover the spectrum of desert geomorphology. *Rivers of India* Geological Society of London

A synthesis of the environmental and climatic history of every major desert and desert margin, for researchers and advanced students.

Fundamentals of Fluvial Geomorphology Cambridge University Press

Palaeohydrology is the study of changes in the waters of the Earth prior to continuous monitoring. Knowledge of these changes is important for the understanding of past and present environmental changes and of the form of the present-day environment. The evolution of the hydrological cycle in response to climatic change produces a chain of environmental and human consequences -- factors that are becoming more relevant as climate change is predicted. Evidence of past environmental changes may be used to validate models with which to predict future change -- thus the study of rates, mechanisms and processes of Late Quaternary hydrological changes is of critical importance. This volume is designed for all who are interested in the hydrological impacts of climatic change and the contribution that palaeohydrology can make to the study of these changes.

Encyclopedia of Geomorphology John Wiley & Sons

Volume editor is the leading authority in the field Alphabetically organized in two volumes c.700 comprehensively signed, cross-referenced and indexed entries Detailed bibliographies and suggestions for further reading follow most entries Fully illustrated: over 300 plates and line drawings Written by an editorial team of over 270 experts from over thirty countries **Geomorphology and River Management** John Wiley & Sons Hydraulic geometry describes the relations between stable channel characteristics and discharge and adjustments made by a stream in response to changes in river discharge and sediment load. This book introduces hydraulic geometry and discusses different theories and their applications in river engineering, thus providing a comprehensive summary for hydraulic engineers, as well as graduate students and researchers in fluvial geomorphology and hydraulic and environmental engineering. Topics covered include the basis of power form of hydraulic geometry relations, validity and stability of power relations, state and assumption of equilibrium, variability of exponents, variation of channel width and velocity, and the effect of stream size and river channel patterns.

Trace Fossils as Indicators of Sedimentary Environments UJ Press

David Knighton's best-selling book looks at the wide range of forms developed by natural rivers and the processes responsible for that development. The book combines empirical and theoretical approaches, and provides a critical assessment of the many schools of thought which have emerged for dealing with adjustment in the fluvial system. It is fully illustrated throughout by a superb range of figures, photographs and tables. Starting with the network scale, the book examines the interaction of hillslopes, drainage networks and channels, and goes on to considerations of catchment hydrology and catchment

denudation. Fluvial processes are analysed in detail, from the mechanics of flow to sediment transport and deposition. Detailing the major components of river channels, the book examines the nature of river adjustment, particularly with respect to equilibrium concepts, and concludes with a look at channel changes through time, affected by flood discharges, climatic change and human activities.

Geographers John Wiley & Sons

The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline. The number of peer-reviewed papers published in geomorphic journals has grown steadily for more than two decades and, more importantly, the diversity of authors with respect to geographic location and disciplinary background (geography, geology, ecology, civil engineering, computer science, geographic information science, and others) has expanded dramatically. As more good minds are drawn to geomorphology, and the breadth of the peer-reviewed literature grows, an effective summary of contemporary geomorphic knowledge becomes increasingly difficult. The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics, to graduate students starting a literature review for their thesis work, and professionals seeking a concise summary of a particular topic. Information on the historical development of diverse topics within geomorphology provides context for ongoing research; discussion of research strategies, equipment, and field methods, laboratory experiments, and numerical simulations reflect the multiple approaches to understanding Earth's surfaces; and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research. Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces. This Treatise on Geomorphology provides a useful synthesis of the state of the discipline, as well as highlighting productive research directions, that Educators and students/researchers will find useful.

Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field. Undergraduate students looking for term paper topics, to graduate students starting a literature review for their thesis work, and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor-in-Chief, Prof. J. F. Shroder of the University of Nebraska at Omaha, is past president of the QG&G section of the Geological Society of America and present Trustee of the GSA Foundation, while being well respected in the geomorphology research community and having won numerous awards in the field. A host of noted international geomorphologists have contributed state-of-the-art chapters to the work. Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor-in-Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14-volume masterpiece. From the foundations and history of geomorphology through to geomorphological innovations and computer modelling, and the past and future states of landform science, no "stone" has been left unturned!

Treatise on Geomorphology Cambridge University Press

Alluvial fans are important sedimentary environments. They trap sediment delivered from mountain source areas, and exert an important control on the delivery of sediment to downstream environments, to axial drainages and to sedimentary basins. They preserve a sensitive record of environmental change within the mountain source areas. Alluvial fan geomorphology and sedimentology reflect not only drainage basin size and geology, but change in response to tectonic, climatic and base-level controls. One of the challenges facing alluvial fan research is to resolve how these gross controls are reflected in alluvial fan dynamics and to apply the results of studies of modern fan

processes and Quaternary fans to the understanding of sedimentary sequences in the rock record. This volume includes papers based on up-to-date research, and focuses on three themes: alluvial fan processes, dynamics of Quaternary alluvial fans and fan sedimentary sequences. Linking the papers is an emphasis on the controls of fan geomorphology, sedimentology and dynamics. This provides a basis for integration between geomorphological and sedimentological approaches, and an understanding how fluvial systems respond to tectonic, climatic and base-level changes.

Great Warm Deserts of the World Springer Science & Business Media

This book covers the geomorphology and landscape evolution of South Africa, focusing on arid landscapes, fluvial systems, karst, Quaternary landscapes, macro-scale geomorphic evolution, coastal geomorphology and applied geomorphology. It would appeal to postgraduate students in Physical Geography (Geomorphology) and Physical Geology and all academics in the earth sciences.

Sedimentology Geological Society of London

For several decades Peter Friend has been one of the leading figures in sedimentary geology and throughout that time he has helped scores of other people by supervising doctoral students, collaborating with colleagues, especially in developing countries, and selflessly sharing ideas with fellow geologists. This collection of papers is a survey of the research frontier in basin dynamics, a field Peter Friend helped initiate, and a token of thanks from people who have benefited from an association with Peter during their careers. The papers in this book fall into four themes - Tectonics and sedimentation, Landscape evolution and provenance, Depositional systems and Fluvial sedimentation - which reflect Peter's research interests and are all important areas of current research in sedimentary geology. There are both case studies and review articles on these themes which reflect recent work, but the collection can also be considered to be a 'sampler' of sedimentary geology for anyone with broad interests in the Earth sciences.

Fluvial Forms and Processes John Wiley & Sons

The Anthropocene is a major new concept in the Earth sciences and this book examines the effects on geomorphology within this period. Drawing examples from many different global environments, this comprehensive volume demonstrates that human impact on landforms and land-forming processes is profound, due to various driving forces, including: use of fire; extinction of fauna; development of agriculture, urbanisation, and globalisation; and new methods of harnessing energy. The book explores the ways in which future climate change due to anthropogenic causes may further magnify effects on geomorphology, with respect to future hazards such as floods and landslides, the state of the cryosphere, and sea level. The book concludes with a consideration of the ways in which landforms are now being managed and protected. Covering all major aspects of geomorphology, this book is ideal for undergraduate and graduate students studying geomorphology, environmental science and physical geography, and for all researchers of geomorphology.

Alluvial Fans John Wiley & Sons

This book outlines a generic set of procedures, termed the River Styles Framework, which provides a set of tools for interpreting river character, behavior, condition, and recovery potential. Applications of the framework generate a coherent package of geomorphic information, providing a physical template for river rehabilitation activities. management and restoration of rivers is a rapidly growing topic for environmental scientists, geologists and ecologists - this book provides a learning tool with which to approach geomorphic applications to river management describes the essential geomorphological principles underlying river behaviour and evolution demonstrates how the River Styles Framework can turn geomorphic theory into practice, to develop workable strategies for restoration and management based on real case studies and authors extensive experience applicable to river systems worldwide synthesises fluvial geomorphology, ecology and management

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