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Fundamentals Of Fluvial Geomorphology



Synopsis

Rivers are significant geomorphological agents, they show an amazing diversity of form and behaviour and transfer water and sediment from the land surface to the oceans. This book examines how river systems respond to environmental change and why this understanding is needed for successful river management. Highly dynamic in nature, river channels adjust and evolve over timescales that range from hours to tens of thousands of years or more, and are found in a wide range of environments. This book provides a comprehensive overview of recent developments in river channel management, clearly illustrating why an understanding of fluvial geomorphology is vital in channel preservation, environmentally sensitive design and the restoration of degraded river channels. It covers: flow and sediment regimes: flow generation; flow regimes; sediment sources, transfer and yield channel processes: flow characteristics; processes of erosion and sediment transport; interactions between flow and the channel boundary; deposition channel form and behaviour: controls on channel form; channel adjustments; floodplain development; form and behaviour of alluvial and bedrock channels response to change: how channels have responded to past environmental change; impacts of human activity; reconstructing past changes river management: the fluvial hydrosystem; environmental degradation; environmentally sensitive engineering techniques; river restoration; the role of the fluvial geomorphologist. Fundamentals of Fluvial Geomorphology is an indispensable text for undergraduate students. It provides straightforward explanations for important concepts and mathematical formulae, backed up with conceptual diagrams and appropriate examples from around the world to show what they actually mean and why they are important. A colour plate section also shows spectacular examples of fluvial diversity.

Book Information

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Customer Reviews

"This handsome, concise volume sets forth to provide an introduction to fluvial geomorphology at a mid-undergraduate level, and it does so nicely." -- I.S. Sasowsky, *Choice* It is easy to read and provides a good basic understanding of the key concepts, providing an accessible introduction to fluvial geomorphology. Neil Macdonald, *Area*

Ro Charlton lectures in the Geography Department at the National University of Ireland, Maynooth, where she teaches undergraduate and postgraduate courses in fluvial geomorphology and hydrology. Her research interests include meandering river canyons in caves and the impact of climate change on water resources.

If you are interested in a book on fluvial geomorphology, and who isn't, then this is a great book. Concepts are explained well and there are some great pictures in it. I really enjoyed this book and I had a great professor at UGA, so 5 stars for the book and geomorphology.

Fundamentals of Fluvial Geomorphology ...No problems

very technical worth the read

I read almost every word of this book. Not only was it beautiful (look at that cover) it was clear, organized, interesting, and had an entire section of colored photos to go with the text. As a new geology graduate student who had no geology background, this book was a life saver and I learned a ton without feeling overwhelmed.

I've been fascinated by fluvial geomorphology for more than two decades, and the topic has routinely been a part of my professional engineering practice. I thought it would be nice to do a comprehensive review of the latest textbook-level thinking on the topic, and I found this book by Ro Charlton to be ideal for that purpose. More specifically, the book is well organized, the writing is clear, the graphics are ample and effective, and the level of detail is "just right" (sufficient for everyone other than specialists, hence the "fundamentals" title). In other words, I learned from this

book, and I also enjoyed the learning process. Unfortunately, the book does reinforce my impression that fluvial geomorphology is still at a relatively immature stage which is mostly just descriptive, with few practically useful predictive models to be found, and with models being more qualitative than quantitative. Of course, this is a consequence of the inherent complexity of streams, not a fault of the book (which is only telling it like it is). The bottom line is that I recommend this book to anyone seeking an overview of the fundamentals of fluvial geomorphology. I know of no better book for that purpose, and I've looked around fairly diligently.

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