Rivers in the Landscape will summarize the state of knowledge concerning physical processes and organization and content of the book emphasize that rivers exist as part of a greater landscape. Fc explicitly discusses: connectivity between the river channel, the atmosphere, the adjacent uplands; subsurface environments; the interactions between tectonics and river networks; and the influence and human activities on river process and form. The text concisely summarizes the basic character of rivers, from hydrology and hydraulics, through sediment dynamics to diverse aspects of channel geometry, the process and form vary over time spans from a few minutes to millions of years. The enhanced and supplemented by a web site with more extended summaries of selected topics, as w
The initial chapters examine the landscape context for rivers in terms of connectivity between channels, greater environment, and interactions between rivers and topography. The pathways by which water solutes move downslope and into channels, and the erosive processes that initiate and extend channels before the text shifts toward in-channel processes, including hydrology, river chemistry, hydraulic dynamics, channel geometry, and adjustments in channel form through space and time. Environments adjacent to the channel that are influenced by fluvial processes (floodplains, terraces, alluvial fans) are summarized, and the final chapter deals with human interactions with rivers.

Professor Wohl has used the first and second editions of Knighton’s *Fluvial Forms and Processes* text teaching a graduate-level course in fluvial geomorphology in 1989 (she first used the book when she was a student, in 1985). The second edition was published in 1998 and is now rather dated, and it is doubtless a third edition. Many people like the compact physical format and concise and accessible writing in addition to being dated, however, the Knighton text does not cover several substantial areas of river that many people believe are important to the integrated, holistic perspective on rivers that is being developed in *Rivers in the Landscape*. The alternative texts, as listed below in section 20, provide very good coverage of rivers, but are even more lacking in the holistic perspective. Consequently, the primary reason for this book is to develop a text that will reflect the approach toward studying rivers that Professor Wohl in this field take in their own courses and research. From discussions with colleagues and students, it is clear that many genuinely believe that this text will also be very attractive to many others interested in rivers, and chance of supplanting Knighton as the primary reference for contemporary river process and form (rivers in the sedimentary rock record).

**See Less**

**Related Titles**

- Mountain Rivers
- Rivers Over Rock: Fluvial Processes in Bedrock Channels
- Australian Freshwater Ecology: Processes and Management
- Coherent Flow Structures at Earth's Surface