



The Fluvial System

Stanley A. Schumm

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Originally published in 1977, this is a classic of the geomorphology literature. Erosion, transport, and deposition of sediment within river catchments concern a wide range of earth scientists and profoundly affect land management. Upland soil removal engages the attention of soil conservationists, hydraulic engineers deal with fluvial sediment transport and river channel morphology, and patterns of sediment deposition in riverine and coastal lowlands affect navigability, the habitability of valley floors and the distribution of groundwater and minerals. The author argues persuasively that fluvial geomorphology, sedimentology and stratigraphy provide insights into each of these components of the river basin. "This volume, with its generous illustrations will be welcomed by earth scientists generally. It fills an important niche in the fluvial literature and its lucid style and clear exposition place it well within the range of students in any form of higher education." Nature "As a synthesis of the fluvial system and its effects on the landscape, as a primer in fluvial geomorphology and sedimentation for the planner, engineer and economic geologist, and as a stimulator of geomorphic thought, this book is most valuable." American Scientist Dr. Schumm is an internationally recognized geomorphologist who has published 150 papers and authored and edited 11 books. His primary experience has been in the investigation and analysis of fluvial systems. He has applied the concepts of geomorphology, fluvial hydraulics and geology to analyze alluvial river form and shape, sediment transport and effects of man-induced changes on river systems throughout the United States and in numerous foreign countries. He has also been involved in the interpretation of lunar and Martian landforms. Dr. Schumm is a past Chairman of the Geomorphology Division of the Geological Society of America, has served on technical and committees of the National Research Council, the Geological Society of America, the American Geophysical Union, International Geographic Union, the National Science Foundation and NASA. He has performed research, lectured and advised government agencies around the world.

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