

Geography of the Physical Environment

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Drainage Basin Dynamics

An Introduction to Morphology, Landscape and Modelling

This volume provides a versatile introduction to the study of drainage basin evolution, morphology, drainage basin hydrology and sedimentology, human interference, natural and anthropogenic hazards and various management techniques.

This book offers the responsible factors of sediment yield and their absolute and specific growth and rate of delivery through tributaries to the main streams. Rivers are important geomorphic agents which reflect an amazing variety of form and behaviour, showing the wide range of natural environment in which they are originated. The drainage system evolution and spatial network development within the dynamic nature are being discussed and how they are adjusted in the geomorphic time scale over the millions of years. This book shows how drainage systems function and react to change and why this thoughtful is required for flourishing integrated basin management. In tropical and sub-tropical countries population pressures as well as different developmental projects are being executed on the drainage basin without proper planning. Today scientists consider drainage basin as an administrative unit during implementation of regional projects. In this context this book will carry a bench mark for scholars and young scientists.

ISBN 978-3-030-79633-4



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