

This book is a synthesis of the information presently available on river and stream ecology, the conditions in which organisms live, and the functioning of the ecosystem.

The author presents first of all the various water environments colonized by organisms and emphasizes especially the concepts of instability and stability of substrates, the fundamental ecological role of hydraulics, and its consequences for the adaptive strategies of organisms: erosion and redistribution of the substrate, algae, and fauna, rhythm of high and low water, and water transit time. The last four chapters examine the ecological impact of human activities on rivers and streams: the building and management of canals and reservoirs, including eutrophication and pollution.

River and Stream Ecology is addressed to students of university and higher education courses on environment, ecology, hydrobiology, and geography. It is also addressed to engineers in charge of the development, management, and maintenance of water courses (Services for the Environment, Agriculture, Utilities, etc.), providing them with the fundamentals they need to carry out their work.

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