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W. Merritt, Professo

Freshwater ecosystems are under increasing pressure as human populations grow and the need for clean water intensifies. The demand for ecologists and environmental managers who are trained in basic freshwater ecology has never been greater. Students and practitioners new to the field of freshwater ecology and management need a text that provides them with an accessible introduction to

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Ecological questions. A logical structure in each chapter that builds from a general observation of an ecological pattern, to an exploration of the various scientific approaches that can be used to investigate such patterns. Suggested further reading lists for each chapter.

Ecosystem analysis and ecological modelling is a rapidly developing interdisciplinary branch of science used in theoretical developments in ecology and having practical applications in environmental protection. In this book, the authors

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Introduce new holistic, particularly cybernetic, concepts into ecosystem theory and modelling, and provide a concise treatment of mathematical modelling of freshwater ecosystems which covers methods, subsystem models, applications and theoretical developments. Part I begins with a brief introduction to the principles of systems theory and their applications to ecosystems, and provides a summary of various methods of systems analysis. In Part II emphasis is laid on the pelagic processes in standing water, characterised by relatively uninvolved structures from

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which models can be readily developed. Part III describes applications of the technique of modelling to solutions of theoretical and practical problems, with different modelling methods and objectives being used in the various chapters. More recent developments in the methods and theory of ecosystem modelling are covered in Part IV which also includes a discussion of future trends. The book is addressed to practising ecologists and engineers in the fields of ecology, limnology, environmental protection, and water quality managements, as well as to graduate/post-graduate

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"The text is an introduction to the ecology, chemistry and physics of freshwater systems, with an emphasis on the human perspective
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Running waters are enormously diverse, ranging from torrential mountain brooks, to large lowland rivers, to great river systems whose basins occupy subcontinents. While this

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diversity makes river ecosystems seem overwhelmingly complex, a central theme of this volume is that the processes acting in running waters are general, although the settings are often unique. The past two decades have seen major advances in our knowledge of the ecology of streams and rivers. New paradigms have emerged, such as the river continuum and nutrient spiraling. Community ecologists have made impressive advances in documenting the occurrence of species interactions. The importance of physical processes in rivers has attracted increased

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attention, particularly the areas of hydrology and geomorphology, and the inter-relationships between physical and biological factors have become better understood. And as is true for every area of ecology during the closing years of the twentieth century it has become apparent that the study of streams and rivers cannot be carried out by excluding the role of human activities, nor can we ignore the urgency of the need for conservation. These developments are brought together in Stream Ecology: Structure and function of running waters, designed to serve as a text for advanced

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