

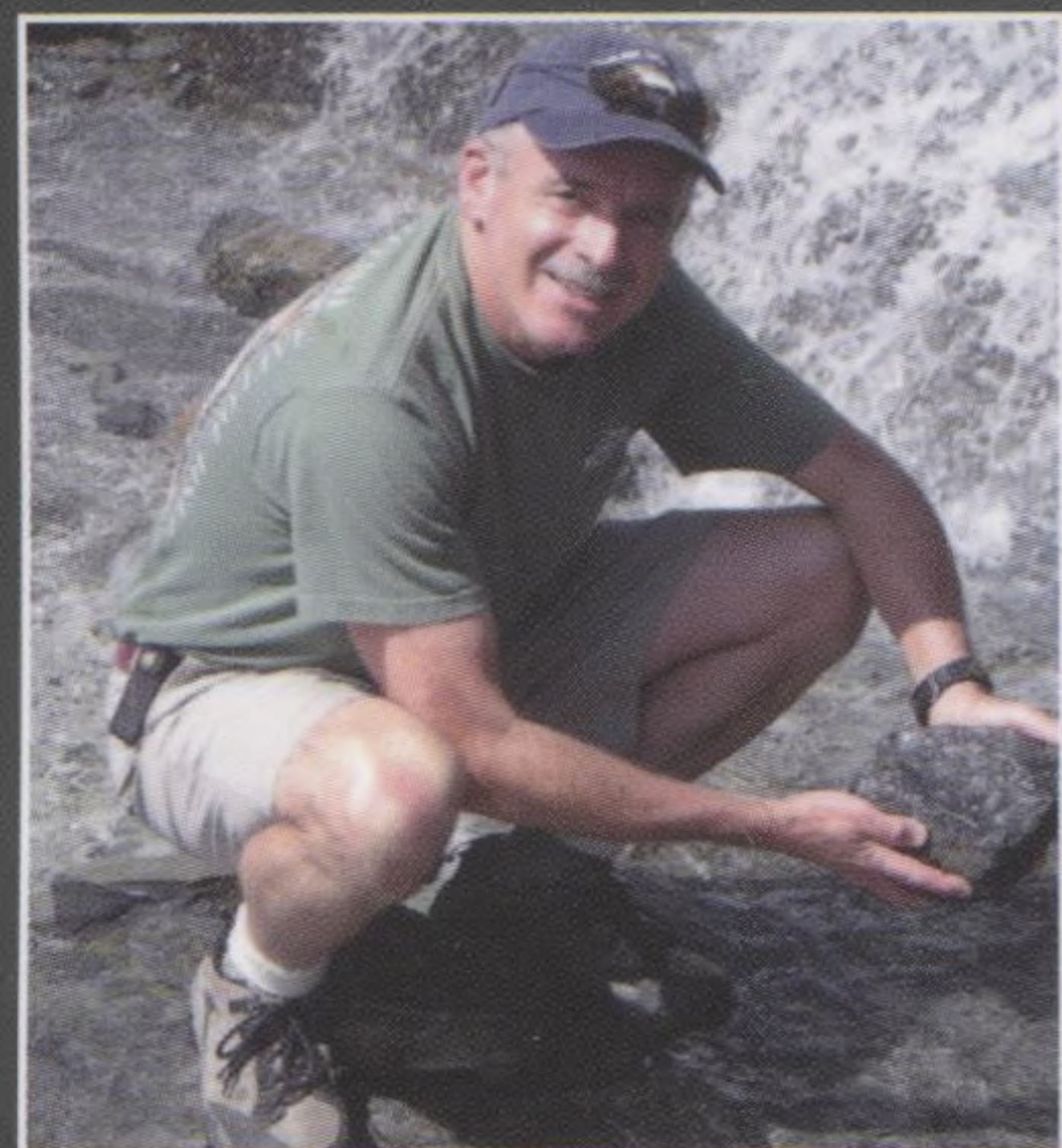
Third Edition

Methods in Stream Ecology

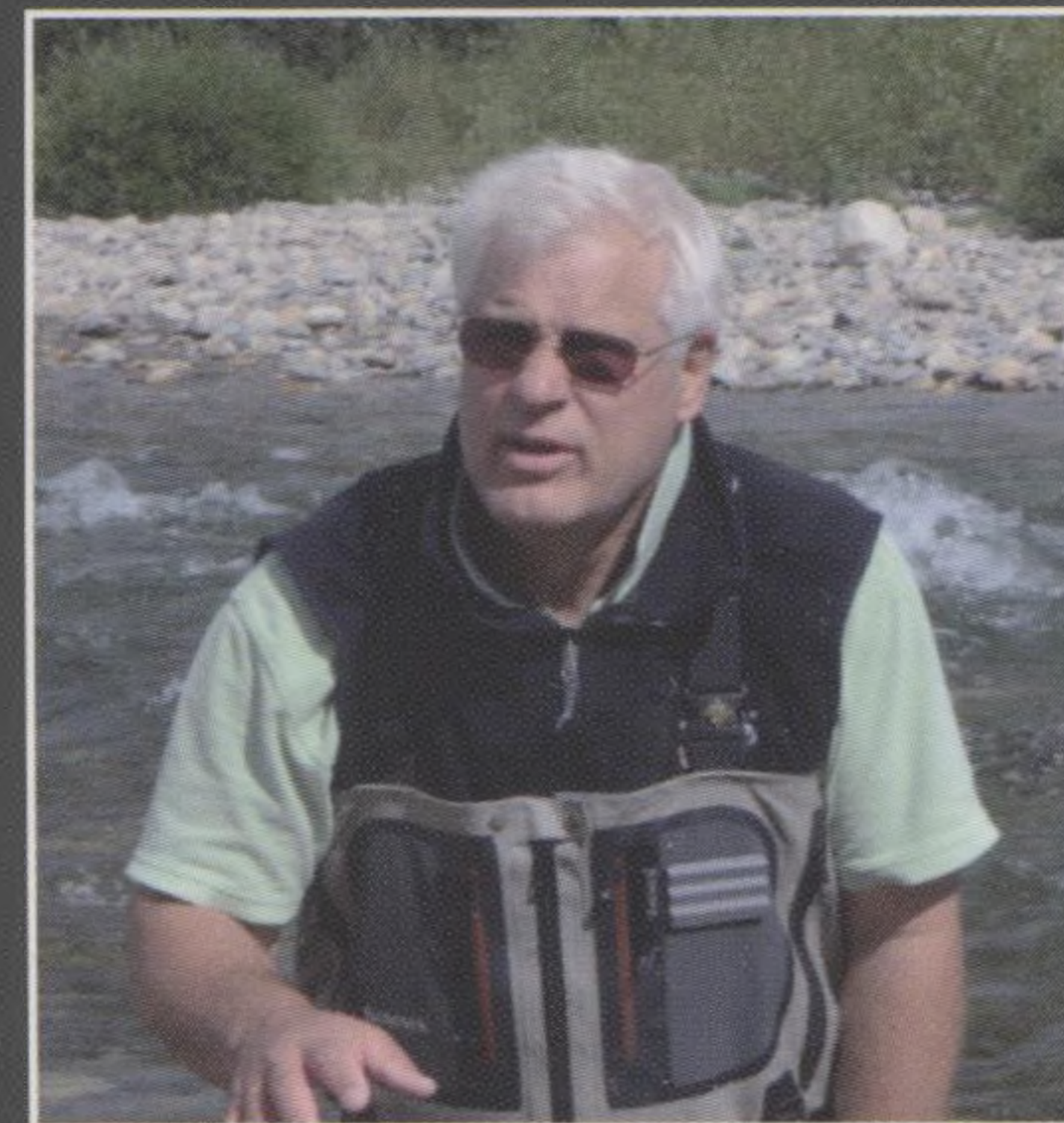
Volume 2: Ecosystem Function

Edited by

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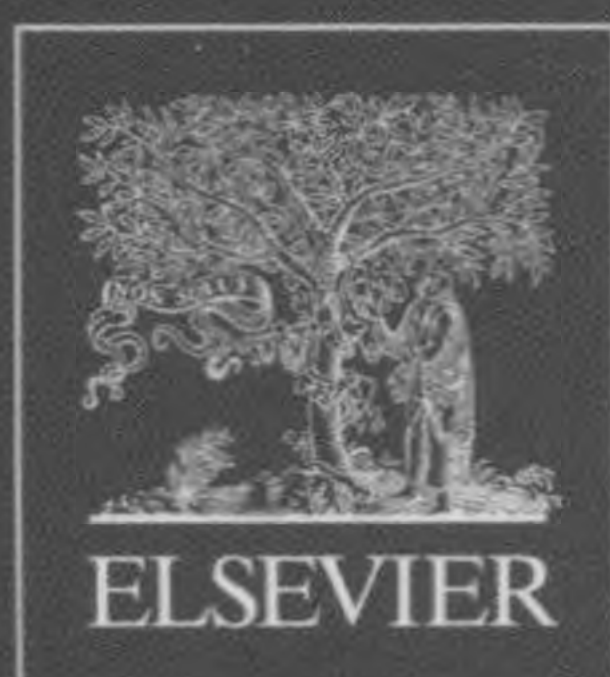
F. Richard Hauer
University of Montana



In this revised and updated edition of the best-selling *Methods in Stream Ecology*, an international team of contributing authors describe the latest advances in the measurement, analysis, and assessment of stream ecosystems. This second volume of a two-volume series presents methods to reveal the function of stream ecosystems and includes full sections on *Organic Matter Dynamics*, *Ecosystem Processes*, and *Ecosystem Assessment* in 18 detailed chapters. Each chapter contains basic methods suitable for teaching undergraduate or graduate students, along with advanced methods appropriate for research-level studies. Suitable as a textbook for courses in stream or river ecology, this book is also an important reference for professional aquatic ecologists, natural resource managers, and user groups seeking to evaluate the condition of streams or their watersheds.

Key Features of This Volume:

- Presents state-of-the-art methods for measuring key processes in stream ecosystems
- Covers all forms of organic matter in streams and their roles in stream productivity
- Describes modern methods for measuring nutrient cycling and stream metabolism
- Contains comprehensive bioassessment procedures for stream algae, invertebrates, and fish
- Each chapter describes a range of methods, from basic to advanced, with detailed field and laboratory protocols
- An associated website (<http://booksite.elsevier.com/9780124165588>) provides field data collection forms, electronic spreadsheets and other tools for collecting and analyzing stream data



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