springer.com



Springer

the language of science

Reviews of the first edition:

".. an unusually lucid and judicious reassessment of the state of stream ecology", *Science Magazine*

"..provides an excellent introduction to the area for advanced undergraduates and graduate students...", *Limnology & Oceanography*

"... a valuable reference for all those interested in the ecology of running waters.", *Transactions of the American Fisheries Society*

About the authors:

J. David Allan is a Professor at the University of Michigan, Ann Arbor. His research interests include species interactions within stream communities and the influence of altered land use and modified flows on stream ecosystems.

María M. Castillo is a Professor at Universidad Simón Bolívar in Caracas, Venezuela. She studies the role of bacteria in carbon dynamics of large tropical rivers, and human influence on nutrients availability in tropical catchments. J. David Allan, University of Michigan, Ann Arbor, MI, USA; María M. Castillo, Universidad Simón Bolívar, Caracas, Venezuela

Stream Ecology

Structure and Function of Running Waters – 2nd edition

Stream Ecology: Structure and Function of Running Waters is designed to serve as a textbook for advanced undergraduate and graduate students, and as a reference source for specialists in stream ecology and related fields. The Second Edition is thoroughly updated and expanded to incorporate significant advances in our understanding of environmental factors, biological interactions, and ecosystem processes, and how these vary with hydrological, geomorphological, and landscape setting.

The broad diversity of running waters – from torrential mountain brooks, to large, lowland rivers, to great river systems whose basins occupy sub-continents – makes river ecosystems appear overwhelming complex. A central theme of this book is that although the settings are often unique, the processes at work in running waters are general and increasingly well understood. Even as our scientific understanding of stream ecosystems rapidly advances, the pressures arising from diverse human activities continue to threaten the health of rivers worldwide.

This book presents vital new findings concerning human impacts, and the advances in pollution control, flow management, restoration, and conservation planning that point to practical solutions.

Contents: 1 An Introduction to Fluvial Ecosystems.- 2 Streamflow.- 3 Fluvial Geomorphology.- 4 Streamwater Chemistry.- 5 The Abiotic Environment.- 6 Primary Producers.- 7 Detrital Energy Sources .- 8 Trophic Relationships.- 9 Species interactions.- 10 Lotic Communities.- 11 Nutrient Dynamics.- 12 Stream Ecosystem Metabolism.- 13 Human Impacts.- 14 The foundations of Stream Ecology.

2007 2nd ed. Approx. 445 p. Softcover

▶ \$ 89.95

ISBN: 978-1-4020-5582-9 forthcoming

Order Now!

/es, please send me	Allan/Castillo, Stream Ecology. 2nd ed. copies ISBN: 978-1-4020-5582-9 ▶ \$ 89.95			
Check / Money order enclosed Please charge my credit card:	MasterCard	VISA	○ AmEx	
Number		exp. Date		
Please send order to:		Name		
		Address		
Springer		Address		
Order Department PO Box 2485		(Sorry, we cannot deliver to P.O. boxes)		
		City / State / ZIP-Code		
Secaucus, NJ 07096-2485		Country		
		Telephone / Email		
		Date 🗙	Signature 🗙	
Call toll-free 1-800-SPRINGER, 8:30 am - 5	5:30 pm ET	CA, CO, MA, MO, NJ, and NY residents, please add sales tax. Ci book: Outride the US and Canada add 510.00 for first book. S	anadian residents, please add 7% GST.Please add 55.00 for shipping one book and 51.00 for e	sach additional

► Fax +1 (201) 348-4505 ► Email orders-nv@springer.com

CA, CO, MA, MG, NJ, and YT residents, pieses and sales tax. Canadian residents, pieses and 7% G3.Preses and 5% Otor styping one book and 51.000 for styping