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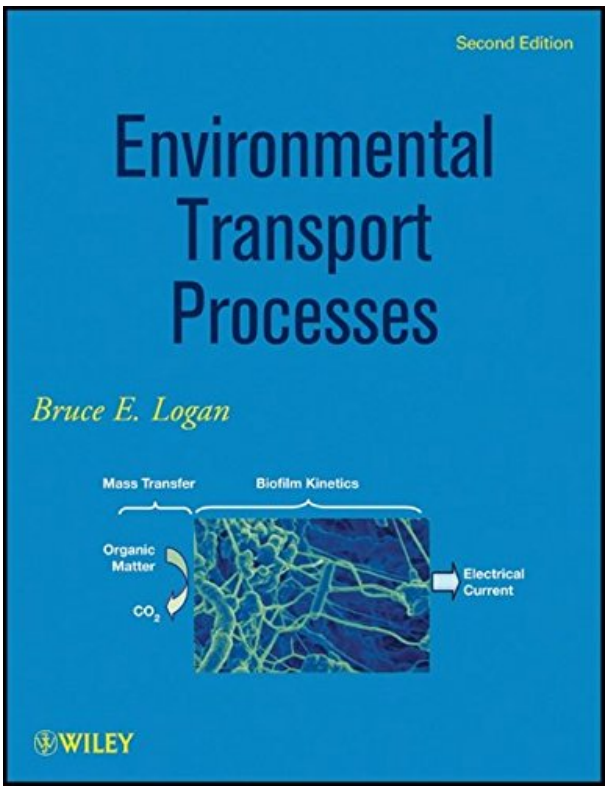

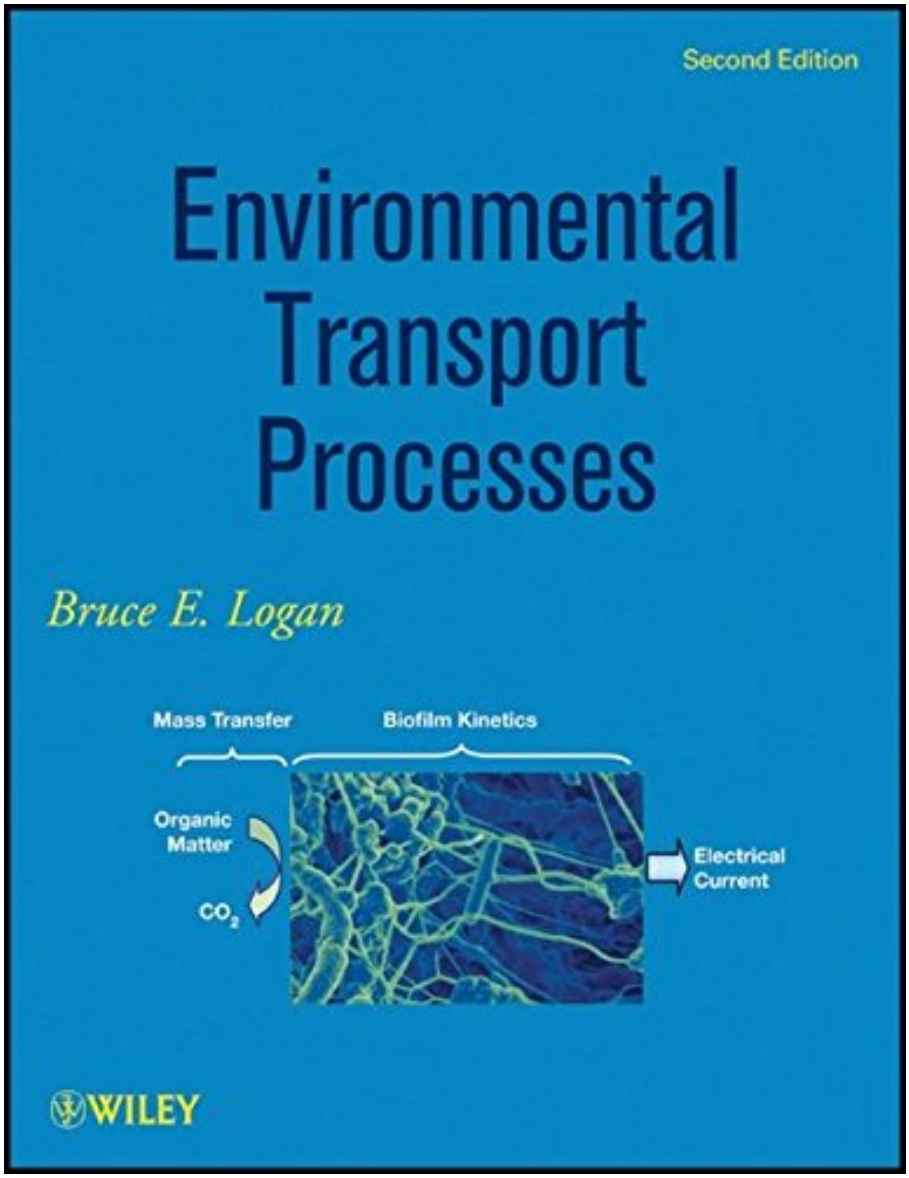

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Review

“It also would be useful for people that work with these issues. Environmental Transport Processes can be recommended both to undergraduate and graduate students seeking to gain a good comprehension of environmental
transport processes.” (Environ Earth Science, 19 October 2012)

From the Back Cover
A highly-accessible introduction to mass transfer problems in environmental engineering and science.

Chemical transport processes in environmental systems are exceptionally complex and notoriously difficult to model. Unlike equations derived for homogenous, well-defined environments in chemical production, for example, equations derived for environmental systems rely upon calculations made for highly heterogeneous, often poorly defined environments consisting of a great many phases and chemicals. Unfortunately, texts on chemical transport usually focus on problems related to chemical process engineering, making it exceedingly difficult for environmental engineers to model processes in natural and engineered systems.

This book provides practicing engineers and graduate students with a clear, comprehensive introduction to transport processes in environmental systems. Structured to suit a one-semester, introductory course on the subject, it begins with the basics of molecular diffusion and chemical partitioning and then progresses to more advanced topics including dispersion, particle transport, fractals, and biofilms. Throughout, the author places an equal emphasis on both engineered and natural systems. Each chapter draws on realistic examples and problems to reinforce important concepts.

Environmental Transport Processes is an ideal first textbook for environmental engineering students who have never studied mass transport, as well as undergraduate and graduate chemical engineering students with little or no experience in environmental topics. It is also a valuable working resource for professionals in those fields, and all researchers interested in transport processes.

About the Author

Bruce E. Logan is the Stan and Flora Kappe Professor of Environmental Engineering, Department of Civil and Environmental Engineering at Penn State. He is Director of the Engineering Energy & Environmental Institute and the Hydrogen Energy (H2E) Center. Dr. Logan has won several awards for his research and articles and has authored Microbial Fuel Cells, also from Wiley.

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ENVIRONMENTAL TRANSPORT PROCESSES BY BRUCE E. LOGAN PDF

A unique approach to the challenges of complex environmental systems

Environmental Transport Processes, Second Edition provides much-needed guidance on mass transfer principles in environmental engineering. It focuses on working with uncontrolled conditions involving biological and physical systems, offering examples from diverse fields, including mass transport, kinetics, wastewater treatment, and unit processes.

This new edition is fully revised and updated, incorporating modern approaches and practice problems at the end of chapters, making the Second Edition more concise, accessible, and easy to use.

The book discusses the fundamentals of transport processes occurring in natural environments, with special emphasis on working at the biological–physical interface. It considers transport and kinetics in terms of systems that involve microorganisms, along with in-depth coverage of particles, size spectra, and calculations for particles that can be considered either spheres or fractals. The book's treatment of particles as fractals is especially unique and the Second Edition includes a new section on exoelectrogenic biofilms. It also addresses dispersion in natural and engineered systems unlike any other book on the subject.

Readers will learn to tackle with confidence complex environmental systems and make transport calculations in heterogeneous environments with mixtures of chemicals.

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Hybrid Reference/Teaching - Failure in Both
By Anonymous
This textbook is NOT helpful in the slightest. I was a student of the author of this book, required to purchase it for class.

It is a strange mix of a reference book morphed into a classroom text that succeeds at neither. The material is presented in a non-linear fashion, derivations overlook key steps, notation is dated and inconsistent, there are references to material in the previous edition that is now absent, and there are numerous typos/misprints.

The manner in which information is presented will you frustrated. It doesn't build or scaffold based on prior knowledge or what you've learned in previous sections/chapters. You spend less time digesting the material and building upon your knowledge than you do deciphering it. It's as if parts were written by half a dozen people with different ideas and slapped together haphazardly. The result is just poorly written - period.

To Teachers/Professors - Don't design a class around the way material is presented in this textbook.
To Students - If you're stuck having to use this text, make the professor go through ALL the missing derivations and emphasizes building knowledge as you progress through chapters. Presented in the right fashion, the material in this book is easily understandable, but this book is most certainly NOT laid out in a manner conducive to that goal.

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