



Environmental Fluid Dynamics: Flow Processes, Scaling, Equations of Motion, and Solutions to Environmental Flows

Jorg Imberger

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Environmental Fluid Dynamics: Flow Processes, Scaling, Equations of Motion, and Solutions to Environmental Flows provides an introduction to the principles of environmental fluid dynamics, i.e., nature's use of air and water to transport and transform waste into nutrients for various organisms. Starting with a discussion of the basics of fluid dynamics for undergraduates, the book moves on to more detailed material for graduate students and specialists in environmental engineering and/or science, physical limnology, estuarine dynamics, and coastal oceanography. Topics covered include equations of motion, fluid viscosity, environmental hydraulics, mixing and dispersion, surface waves, and environmental flows. The material presented here is based on the author's 40 years of teaching fluid dynamics at Berkeley, Caltech, Karlsruhe, Padova, and Western Australia. The book provides a basic overview, while specialists needing more in-depth information can turn to advanced texts in their specific areas of interest.

- Introduces the principles of fluid dynamics, follows with simple applications, and builds to more complex applications experienced in the field.
- Offers a unique, authoritative, and accessible treatment of the subject.
- Includes appropriate mathematical expressions without overburdening the reader with difficult or extensive notation.

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