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# Handbook of Environmental Fluid Dynamics, Two-Volume Set: Handbook of Environmental Fluid Dynamics, Volume Two: Systems, Pollution, Modeling, and Measurements

## Handbook of Environmental Fluid Dynamics, Two-Volume Set: Handbook of Environmental Fluid Dynamics, Volume Two: Systems, Pollution, Modeling, and Measurements

With major implications for applied physics, engineering, and the natural and social sciences, the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities, environment, and fluid motion. A landmark for the field, the two-volume *Handbook of Environmental Fluid Dynamics* presents the basic principles, fundamental flow processes, modeling techniques, and measurement methods used in the study of environmental motions. It also offers critical discussions of environmental sustainability related to engineering.

The handbook features 81 chapters written by 135 renowned researchers from around the world. Covering environmental, policy, biological, and chemical aspects, it tackles important cross-disciplinary topics such as sustainability, ecology, pollution, micrometeorology, and limnology.

**Volume Two: Systems, Pollution, Modeling, and Measurements** explores the interactions between engineered structures and anthropogenic activities that affect natural flows, with particular emphasis on environmental pollution. The book covers the numerical methodologies that underpin research, predictive modeling, and cyber-infrastructure developments. It also addresses practical aspects of laboratory experiments and field observations that validate quantitative predictions and help identify new phenomena and processes.

As communities face existential challenges posed by climate change, rapid urbanization, and scarcity of water and energy, the study of environmental fluid dynamics becomes increasingly relevant. This volume is a valuable resource for students, researchers, and policymakers working to better understand environmental motions and how they affect and are influenced by anthropogenic activities.

See also *Handbook of Environmental Fluid Dynamics, Two-Volume Set* and *Volume One: Overview and Fundamentals*.

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