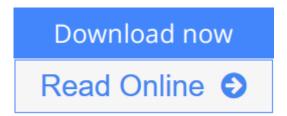


Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries

By Zhen-Gang Ji



Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries By Zhen-Gang Ji

This reference gets you up to speed on mathematical modeling for environmental and water resources management. With a practical, application-oriented approach, it discusses hydrodynamics, sediment processes, toxic fate and transport, and water quality and eutrophication in rivers, lakes, estuaries, and coastal waters. A companion CD-ROM includes a modeling package and electronic files of numerical models, case studies, and model results. This is a core reference for water quality professionals and an excellent text for graduate students.



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Editorial Review

Review

"On the whole, the topics are well organized, the prose is easy to read and understand, the style is lucid, and there is a wealth of information reflecting the knowledge and experience of the author. The book will also be useful to practicing water and environmental engineers.." (Journal of Hydrologic Engineering, August 2009)"

As a water quality professional, I found the book to be helpful and a very informative reference. It provides much needed information for solving practical environmental water resources problems through modeling. It would also be a great addition to any university library." (*Journal of the American Water Resources Association*, July 2009)

"This hands-on reference illustrates the principles, basic processes, mathematical descriptions, and practical applications of modeling surface waters." (*APADE*, 2009)

From the Back Cover

Mathematical modeling for environmental and water resources management

This hands-on reference illustrates the principles, basic processes, mathematical descriptions, and practical applications of modeling surface waters. It discusses hydrodynamics, sediment processes, toxic fate and transport, and water quality and eutrophication in rivers, lakes, estuaries, and coastal waters. There has been great progress in mathematical modeling that simulates surface waters numerically. Modeling is becoming a powerful tool, and this reference gets readers up to speed quickly. Practically organized to facilitate quick reference, Hydrodynamics and Water Quality: Modeling Rivers, Lakes, and Estuaries:

- Focuses on how to solve environmental problems in surface waters
- Uses a practical, application-oriented approach: chapters begin with an introduction of basic concepts, proceed to discussions of physical, chemical, and/or biological processes and their mathematical representations, and conclude with real-life case studies
- Has a companion CD that includes a modeling package and electronic files of numerical models, case studies, and model results, plus other materials to help readers use the models and tools
- Features case studies that show how to use models appropriate to environmental and water resources management
- Provides detailed information on how to use the three-dimensional Environmental Fluid Dynamics Code (EFDC) model supported by the EPA

This is a must-have reference for environmental scientists, engineers, geologists, chemists, and government regulators, as well as other water quality professionals. It is also an excellent text for graduate students in fields that encompass hydrodynamics and water quality.

About the Author

Zhen-Gang (Jeff) Ji, PHD, DES, PE, has more than twenty years of professional experience in surface water modeling and model development. His expertise includes hydrodynamics, wave simulation, eutrophication, toxic process, and sediment transport. He has developed and applied state-of-the-art hydrodynamic models and water quality models to the simulation of rivers, lakes, estuaries, and coastal waters. Currently, Dr. Ji is an oceanographer and numerical modeler with the Minerals Management Service.

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