



Open-Channel Flow

Subhash C. Jain

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A clear, up-to-date presentation of the principles of flow in open channels

A fundamental knowledge of flow in open channels is essential for the planning and design of systems to manage water resources. Open-Channel Flow conveys this knowledge through the use of practical problems that can be solved either analytically or by simple numerical methods that do not require the use of computer software.

This completely up-to-date text includes several features not found in any other book on the subject. It derives one-dimensional equations of motion using both a simplified approach and a rigorous approach, and it explains the distinction between the momentum and mechanical energy equations. The author places great emphasis on identifying the types and locations of the control sections that are essential in analyzing flow profiles, and he includes a section on recently recognized nonunique flow profiles.

Offering numerous worked examples that are helpful in understanding the basic principles and their practical applications, this book:

- * Presents the latest computational methods for profiling spatially varied and unsteady flow
- * Includes end-of-section exercises that measure and build understanding
- * Fully explains governing equations in algebraic and differential form
- * Brings sluice-gate analysis completely up to date
- * Covers artificial channel controls such as weirs, spillways, and gates, and special topics such as transitions in supercritical flow and flow through culverts

Written in metric units throughout, this excellent learning tool for senior- and graduate-level students in civil and environmental engineering programs is also a useful reference for practicing civil and environmental engineers.

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Denise Zimmerman:

A lot of people always spent their particular free time to vacation or perhaps go to the outside with them friends and family or their friend. Do you know? Many a lot of people spent these people free time just watching TV, or maybe playing video games all day long. If you would like try to find a new activity honestly, that is look different you can read the book. It is really fun in your case. If you enjoy the book that you just read you can spent the entire day to reading a guide. The book Open-Channel Flow it is quite good to read. There are a lot of individuals who recommended this book. We were holding enjoying reading this book. If you did not have enough space to create this book you can buy often the e-book. You can m0ore simply to read this book through your smart phone. The price is not very costly but this book has high quality.

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