



# Open Channel Flow

*Madan Mohan Das*

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## **Open Channel Flow** Madan Mohan Das

Primarily intended as a textbook for the undergraduate and postgraduate students of civil engineering, this book provides a comprehensive knowledge in open channel flow.

The book starts with the concept of open channel flow, types of forces acting on the flow, types of channel flow, velocity distribution and coefficients, and basic continuity in 1D and 3D. Then it moves on to steady gradually varied flow, its differential equation, hydraulics of alluvial channel, design of channel and hydraulic jump. Finally, the text concludes with Saint-Venant equations and its solutions by few numerical methods in flood routing and dam-break situations.

### KEY FEATURES

- Includes computer programs for steady gradually varied flow
- Provides various numerical methods of solving the equations
- Explains dam-break problem in detail
- Contains numerous solved examples

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