

Unsteady Flow in Open Channels

By Jurjen A. Battjes, Robert Jan Labeur

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Practitioners in water engineering rely on a thorough understanding of shallow water flows in order to safeguard our habitat, while at the same time sustaining the water environment. This book proposes a unified theoretical framework for the different types of shallow flow, providing a coherent approach to interpret the behaviour of such flows, and highlighting the similarities and differences. Every major topic in the book is accompanied by worked examples illustrating the theoretical concepts. Practical examples, showcasing inspiring research and engineering applications from the past and present, provide insight into how the theory developed. The book is also supplemented by a range of online resources, available at www.cambridge.org/battjes, including problem sets and computer codes. A solutions manual is available for instructors. This book is intended for students and professionals working in environmental water systems, in areas such as coasts, rivers, harbours, drainage, and irrigation canals.

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Editorial Review

Review
'Unsteady Flow in Open Channels ... is a modern and insightful introduction to flow phenomena in shallow channels. The book is highly pedagogical; explanations are kept as simple as possible, without loss of generality. Treatment of topics is concise and to the point; formulas are written in a way that makes their interpretation transparent. A major added value, in comparison to other textbooks, is the strong emphasis on the physical dynamics behind mathematical formulations. Much attention is given to the characteristic method, to explain phenomena related to the propagation of flow disturbances. The book also provides a good introduction to numerical solution methods of the shallow water equations. It is an excellent textbook for students, very well suited for academic teaching at undergraduate and graduate levels ... It is also a useful handbook for hydraulic engineers; it contains many examples for practical use in hydraulic engineering ...' J. Dronkers,

'Unsteady Flow in Open Channels is truly an excellent addition to the Cambridge University Press library. It provides a thorough mathematical treatment of wave propagation for a broad range of engineering problems. This includes the shallow water equations for tidal basins and tsunamis, flood wave and contaminant propagation in rivers, and pressure waves in closed conduits.' Pierre Julien, Colorado State University

About the Author
Jurjen Battjes is Emeritus Professor at Technische Universiteit Delft, the Netherlands. Now retired, Professor Battjes had a long career in university teaching and research in the field of fluid mechanics. He taught courses in modelling, introductory fluid mechanics, unsteady flow in open channels, and wind-generated waves, the latter being his major research topic. He has also been active as a consultant on numerous projects in coastal engineering, including the Deltaworks in the Netherlands. Professor Battjes has received several prizes and awards, including the International Coastal Engineering Award of the American Society of Civil Engineers.

Robert Jan Labeur is Assistant Professor at Technische Universiteit Delft, the Netherlands, where he teaches various courses in environmental fluid mechanics. His research involves numerical modelling of environmental flows, water borne transport processes, and morphology, in particular the modelling of complex 3-dimensional flows. Before working at the university, he was a consultant in the field of hydraulic and coastal engineering.

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improve their proficiency in writing, they also doing some study before they write for their book. One of them is this Unsteady Flow in Open Channels.

Michael Johnson:

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