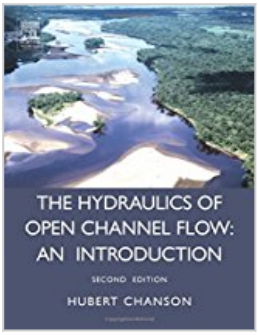

Hydraulics of Open Channel Flow: An Introduction - Basic Principles, Sediment Motion, Hydraulic Modeling, Design of Hydraulic Structures (Second Edition)

By Hubert Chanson

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Since the publication of its first edition in 1999, 'The Hydraulics of Open Channel Flow' has been praised by professionals, academics, students and researchers alike as the most practical modern textbook on open channel flow available. This new edition includes substantial new material on hydraulic modelling, in particular addressing unsteady open channel flows. There are also many new exercises and projects, including a major new revision assignment.

Dr Chanson introduces the basic principles of open channel flow and takes readers through the key topics of sediment transport, hydraulic modelling and the design of hydraulic structures.

·Comprehensive coverage of the basic principles of key application areas of the hydraulics of open channel flow
·New exercises and examples added to aid understanding
·Ideal for use by students and lecturers in civil and environmental engineering

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Editorial Review

Review
"This practical and comprehensive textbook covers all aspects of unconstrained water channels such as rivers, wetlands, and canals that have a surface interacting with the atmosphere. The basic principles of fluid mechanics are discussed, and readers later encounter concepts of sediment transport and hydraulic modelling. The concluding chapter introduces the design of hydraulic structures." – Environmental Science and Technology

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This book will be useful for undergraduate students and I would recommend it to them. I also think that graduate students and practical engineers will benefit by studying this book."
Canadian Journal of Civil Engineering

About the Author
Hubert Chanson is a reader in fluid mechanics, hydraulics and waterengineering at the University of Queensland, Australia. His research interests include hydraulic engneering, design of hydraulic structures, two-phase gas-liquid flows, mixing and dispersion in coastal and estuarine zones. He has had over 200 international refereed papers, written 7 books and has been an active consultant for both governmental agencies and private organizations.

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