Environmental Hydraulics for Open Channel Flows

Description: Environmental Hydraulics is a new text for students and professionals studying advanced topics in river and estuarine systems. The book contains the full range of subjects on open channel flows, including mixing and dispersion, Saint-Venant equations method of characteristics and interactions between flowing water and its surroundings (air entrainment, sediment transport).

Following the approach of Hubert Chanson's highly successful undergraduate textbook Hydraulics of Open Channel Flow, the reader is guided step-by-step from the basic principles to more advanced practical applications.

Each section of the book contains many revision exercises, problems and assignments to help the reader test their learning in practical situations.

Complete text on river and estuarine systems in a single volume
Step-by-step guide to practical applications
Many worked examples and exercises

Contents:

PART 1 Introduction to Open Channel Flows
Introduction
Fundamentals of open channel flows.

PART 2 Turbulent Mixing and Dispersion in Rivers and Estuaries: An Introduction
Introduction to mixing and dispersion in natural waterways
Turbulent shear flows
Diffusion: basic theory
Advevtive diffusion
Turbulent dispersion and mixing: 1 Vertical and transverse mixing
Turbulent dispersion and mixing: 2. Longitudinal dispersion
Turbulent dispersion in natural systems
Mixing in estuaries: Part 2 Revision exercises

PART 3 Introduction to Unsteady Open Channel Flows
Unsteady open channel flows: 1. Basic equations
Unsteady open channel flows: 2. Applications
Unsteady open channel flows: 3. Application to dam break wave
Numerical modelling of unsteady open channel flows
Revision exercises. PART 4 Interactions between Flowing Water and its Surroundings: Introduction
Interaction between flowing water and solid boundaries: sediment processes
Interaction between flowing water and free surfaces: self -aeration and air entrainment

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