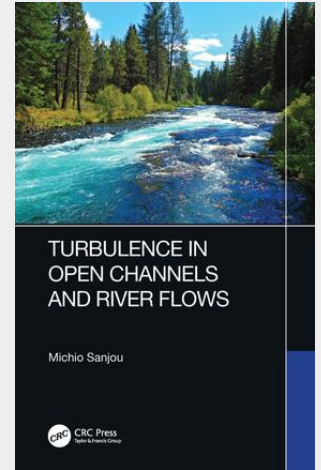


Sanjou

Turbulence in Open Channels and River Flows

Turbulence in Open Channel and River Flows covers turbulence and related fluid mechanics in open-channel flows, addressing both basic mechanisms and their applications. It helps readers understand the organized motion involved in turbulent flow and apply this understanding to the practice of hydraulic engineering, including mass and sediment transport. Chapters cover mathematical expansion procedures and basic fluid mechanics to help readers understand essentially physical phenomena, and present special techniques for measurement and accurate direct observation of open-channel turbulence in laboratory flumes or natural rivers. Topics related to environmental management and turbulence-related disasters are addressed. - Includes detailed mathematical expansions and supporting supplements in an appendix - Presents the mathematics and fluid mechanics needed to understand turbulence in open channels - Includes experimental topics from the author's research, encouraging readers to measure and accurately observe turbulence in laboratories and rivers The book is ideal for graduate students, researchers and engineers in hydraulics and hydromechanics.



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