

# Numerical Modelling of Hydrodynamics for Water Resources (Balkema: Proceedings and Monographs in Engineering, Water and Earth Sciences)

Enrique Playán

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Overland flow modelling has been an active field of research for some years, but developments in numerical methods and computational resources have recently accelerated progress, producing models for different geometries and types of flows, such as simulations of canal and river networks. This volume describes a variety of simulation techniques that facilitate the management of hydrodynamic systems, providing models which incorporate complex geometry and diverse flows. It highlights the changes in canal operational rules based on decision support systems. The editors demonstrate how numerical modelling of advection-diffusion can be used to manage problems related to the movement of solutes in rivers and aquifers.



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