Computational Modelling in Hydraulic and Coastal Engineering

By Christopher G. Koutitas, Panagiotis D. Scarlatos

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, Computational Modelling in Hydraulic and Coastal Engineering, Christopher G. Koutitas, Panagiotis D. Scarlatos, Computational modeling and simulation methods have a wide range of applications in hydraulic and coastal engineering. This textbook provides an introductory but comprehensive coverage of these methods. It emphasises the use of the finite differences method with applications in reservoir management, closed-conduit hydraulics, free-surface channel and coastal domain flows, surface gravity waves, groundwater movement, and pollutant and sediment transport processes. It focuses on applications rather than lengthy theories or derivations of complex formulas and is supported by a wealth of hands-on numerical examples and computer codes written in MATLAB but available also in BASIC. PowerPoint presentations and learning assignment projects/quizzes along with learning assessment rubrics are included. It will suit senior level undergraduates and graduate students as well as practitioners such as coastal and maritime engineers, environmental engineers, computer modellers, and hydro-geologists.

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This book is definitely not straightforward to get started on studying but extremely exciting to read. It is really simplistic but shocks in the 50 percent of the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding.
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