



# **Engineering Hydrology (Oxford Higher Education)**

Ojha, Bhunya, Berndtsson

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Engineering Hydrology is designed as a textbook for undergraduate students of Civil Engineering and introduces several new concepts and analytical methods and seeks to address the present day needs of graduating engineers.

The book starts with a basic knowledge of water, its forms and locations, the hydrologic cycle and methods to analyze hydrograph applications. Full justice is done to key areas such as simulation and synthetic methods in hydrology, with emphasis on Monte Carlo simulation, rainfall-runoff relationships, statistical methods in hydrology, flood frequency analysis incorporating new methods such as POT series theory, fundamentals of groundwater flow and well hydraulics. Special emphasis is laid on groundwater budgeting and numerical methods for situations where analytical solutions are not possible. The use of software visual MODFLOW further strengthens the discourse.

The focus of this textbook is on practical applications. A large number of solved and unsolved examples is provided to aid the student in the understanding of the fundamentals.



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