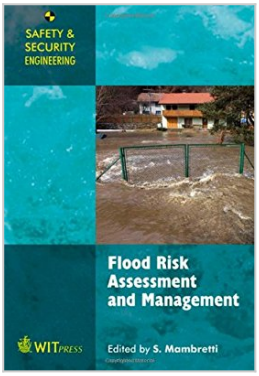

Flood Risk Assessment and Management (Safety & Security Engineering) (Safety and Security Engineering)

By S. Mambretti

Flood Risk Assessment and Management (Safety & Security Engineering) (Safety and Security Engineering) By S. Mambretti

This volume is the first in a new series covering different aspects of Safety and Security Engineering aimed at reaching a comprehensive view of risk mitigation.

The volume is devoted to floods, as one-third of the annual natural disasters and economic losses, and more than half of the respective victims, are flood-related. A burgeoning global population and growing wealth, particularly in the last two or three decades, have increased the risk and the demand for protection from flooding. These features, together with climate change predictions and urban development, are affecting the way flood risk is managed.

Knowledge and scientific tools play a role of paramount importance in the strain of coping with flooding problems, along with capacity building in the context of political and administrative framework. Therefore, governments need to establish clear institutional, financial and social mechanisms and processes for flood risk management in order to ensure the safety of people and property and, thereby, contribute to both flood defence and sustainable development.

The present volume contains selected papers presented at Conferences organized by the Wessex Institute of Technology. The papers have been revised by the Authors, in order to be up-to-date and provide an integrated approach. The book covers the following topics:

- Risk assessment
- Mathematical models for flood propagation
- Effect of topographic data resolution
- Social and psychological aspects
- Decision making and management
- Legislations and directives
- Alternatives in flood protection
- Response and recovery
- Damages and economic-related problems

- Case studies

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- Rank: #7230497 in Books
- Published on: 2011-12-05
- Original language: English
- Number of items: 1

- Dimensions: 9.25" h x 6.25" w x .50" l, .0 pounds
- Binding: Hardcover
- 160 pages

Editorial Review

About the Author
Stefano Mambretti is Associate Professor of Hydraulics at the Faculty of Engineering of the Politecnico di Milano. He graduated in Civil Engineering at the Politecnico in 1991 (winning the "Noseda prize" as best graduate in Hydraulics that year) and was awarded a PhD in Hydraulic Engineering in 1995. In 1997 he was appointed as Vice Chief of Public Works in an important municipality, in 1999 he became Assistant Professor in Hydraulics, and in 2003 he was appointed Associate Professor. Stefano also worked as a private consultant, for a number of projects in urban infrastructures in Djibouti, Kuwait, Algeria, Tanzania, Iraq, gaining renowned expertise, mainly in the field of waterhammer. Dr. Mambretti is the author of 66 publications (peer-reviewed scientific papers, key-note lectures, books, and technical reports) in the areas of water phenomena, as urban infrastructures (sewer and water distribution systems), fluid dynamics and rheology of debris and hyper-concentrated flows, water resources use and management, using both advanced laboratory and field observation techniques and mathematical simulation models.

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