



Dam-Break Problems, Solutions and Case Studies

By D. de Wrachien

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This book gives an up-to-date review of dam-break problems, along with the theoretical background and the practical aspects involved in dam failures, design of flood defense structures, prevention measures and the environmental social, economic and forensic aspects related to the topic. Moreover, it explores an exhaustive range of laboratory tests and modeling techniques to deal effectively with shock waves and other disasters caused by dam failures.

Disaster management refers to programs and strategies designed to prevent, mitigate, prepare for, respond to and recover from the effects of these phenomena. To manage and minimize these risks, it is necessary to identify hazards and vulnerability by means of a deep knowledge of the causes which drive to dam failures, and to understand the flow propagation process.

Knowledge and advanced scientific tools play a role of paramount importance of coping with flooding and other dam-break problems along with capacity building in the context of political and administrative frameworks. All these aspects are featured in the book, which is a comprehensive treatise that covers the most theoretical and advanced aspects of structural and hydraulic engineering, together with the hazard assessment and mitigation measures and the social economic and forensic aspects related to the subject.

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Editorial Review

About the Author

Daniele DE WRACHIEN, is Director of the Institute of Agricultural Hydraulics at the State University of Milan, Italy and a Full Professor of Irrigation and Drainage there. During his tenure as President, he established links of close cooperation between that Society and numerous like-minded international organizations, among which it is worth mentioning ICID (International Commission on Irrigation and Drainage). Professor De Wrachien is the author of more than 150 publications in all areas of soil and water phenomena, such as irrigation, draining, flow and transport processes, crop water requirements, water resources use and management, soil erosion and conservation, using both advanced laboratory and field observation techniques and mathematical simulation models. His research is now focused mainly on complex spatial patterns of the environment, with attention given to the spatial variability of hydrological characteristics. Stefano MAMBRETTI is an Associate Professor in the Hydraulics section of the Department of Hydraulic, Environmental, Infrastructure, & Surveying Engineering at the Politecnico di Milano, Italy, where his research focuses on fluid mechanics and fluid-structure interactions and river hydraulics and hydraulic risk management. He is the co-author of numerous conference papers and research articles in his field.

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