



Flood Risk Assessment and Management: How to Specify Hydrological Loads, Their Consequences and Uncertainties

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Flood catastrophes which happened world-wide have shown that it is not sufficient to characterize the hazard caused by the natural phenomenon "flood" with the well-known 3M-approach (measuring, mapping and modelling). Due to the recent shift in paradigms from a safety oriented approach to risk based planning it became necessary to consider the harmful impacts of hazards. The planning tasks changed from attempts to minimise hazards towards interventions to reduce exposure or susceptibility and nowadays to enhance the capacities to increase resilience. Scientific interest shifts more and more towards interdisciplinary approaches, which are needed to avoid disaster. This book deals with many aspects of flood risk management in a comprehensive way. As risks depend on hazard and vulnerabilities, not only geophysical tools for flood forecasting and planning are presented, but also socio-economic problems of flood management are discussed. Starting with precipitation and meteorological tools to its forecasting, hydrological models are described in their applications for operational flood forecasts, considering model uncertainties and their interactions with hydraulic and groundwater models. With regard to flood risk planning, regionalization aspects and the options to utilize historic floods are discussed. New hydrological tools for flood risk assessments for dams and reservoirs are presented. Problems and options to quantify socio-economic risks and how to consider them in multi-criteria assessments of flood risk planning are discussed. This book contributes to the contemporary efforts to reduce flood risk at the European scale. Using many real-world examples, it is useful for scientists and practitioners at different levels and with different interests.

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