1. Record Nr. UNINA9910140903703321

Titolo	Flood risk science and management [[electronic resource] /] / edited by Gareth Pender ... [et al.]
Pubbl/distr/stampa	Hoboken, NJ, : Wiley-Blackwell, 2011
ISBN	1-4443-4076-X 1-282-88944-3 9786612889448 1-4443-2484-5 1-4443-2485-3
Descrizione fisica	1 online resource (578 p.)
Altri autori (Persone)	PenderG (Garry)
Disciplina	627.4 627/.4
Soggetti	Flood control Flood damage prevention Risk assessment Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Flood Risk Science and Management; Contents; Preface; Contributors; Foreword; Acronyms/Glossary of terms; Part 1: Introduction; 1 Setting the Scene for Flood Risk Management; Part 2: Land Use and Flooding; 2 Strategic Overview of Land Use Management in the Context of Catchment Flood Risk Management Planning; 3 Multiscale Impacts of Land Management on Flooding; 4 Managed Realignment: A Coastal Flood Management Strategy; 5 Accounting for Sediment in Flood Risk Management; 6 A Measured Step Towards Performance-Based Visual Inspection of Flood Defence Assets; Part 3: Flood Forecasting and Warning 7 Advances in the Remote Sensing of Precipitation Using Weather Radar8 Artificial Intelligence Techniques for Real-Time Flood Forecasting; 9 Real-Time Updating in Flood Forecasting and Warning; 10 Coupling Meteorological and Hydrological Models for Real-Time Flood Forecasting; Part 4: Flood Modelling and Mitigation; 11 Data

Utilization in Flood Inundation Modelling; 12 Flood Inundation Modelling to Support Flood Risk Management; 13 Integrated Urban Flood Modelling; Part 5: Systems Modelling and Uncertainty Handling; 14 Distributed Models and Uncertainty in Flood Risk Management
15 Towards the Next Generation of Risk-Based Asset Management Tools16 Handling Uncertainty in Coastal Modelling; Part 6: Policy and Planning; 17 The Practice of Power: Governance and Flood Risk Management; 18 Stakeholder Engagement in Flood Risk Management; 19 Flood Risk Communication; 20 Socio-Psychological Dimensions of Flood Risk Management; 21 Assessment of Infection Risks due to Urban Flooding; Part 7: Case Studies; 22 Modelling Concepts and Strategies to Support Integrated Flood Risk Management in Large, Lowland Basins: Rio Salado Basin, Argentina
23 Flood Modelling in the Thames Estuary24 A Strategic View of Land Management Planning in Bangladesh; 25 Goals, Institutions and Governance: the US Experience; Index; Colour Plates

Sommario/riassunto

Approaches to avoid loss of life and limit disruption and damage from flooding have changed significantly in recent years. Worldwide, there has been a move from a strategy of flood defence to one of flood risk management. Flood risk management includes flood prevention using hard defences, where appropriate, but also requires that society learns to live with floods and that stakeholders living in flood prone areas develop coping strategies to increase their resilience to flood impacts when these occur. This change in approach represents a paradigm shift which stems from the realisation that co