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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 Tools; 16 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 Estuary; 24 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
