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Nota di contenuto	Introduction / Janos J. Bogardi, Zbigniew W. Kundzewicz -- Integrated regional risk assessment and safety management: Challenge from Agenda 21 / Adrian V. Gheorghe -- Regional safety planning -- On some organizational aspects -- Techniques for interactive decision processes in IRRASM -- The use of DSS for integrated risk assessment studies -- The use of GIS technology for IRRASM -- The Kovers approach -- Risk analysis: The unbearable cleverness of bluffing / V. Klemes -- Climate-change-impact scenarios: From bluffing to metabluffing -- In praise of theory and robust results -- A reality check -- Conclusions, or a tale about unkunks, kunks, and skunks -- Aspects of uncertainty, reliability, and risk in flood forecasting systems incorporating weather radar / Robert J. Moore -- Uncertainty in flood forecasts -- Reliability and system complexity -- Risk and ensemble forecasting -- Probabilistic hydrometeorological forecasting / Roman Krzysztofowicz -- Probabilistic forecasts -- Precipitation forecasting

system -- Stage forecasting system -- Flood warning decision system -- Closure -- Flood risk management: Risk cartography for objective negotiations / O. Gilard -- "Inondabilite" method -- Necessity and consequences of an objective negotiation -- Responses to the variability and increasing uncertainty of climate in Australia / Jonathan F. Thomas, Bryson C. Bates -- Variability in Australia's climate and hydrology -- Climate change -- Urban systems -- Irrigation systems -- Infrastructure robustness.

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Sommario/riassunto

Risk, Reliability, Uncertainty, and Robustness of Water Resource Systems is based on the Third George Kovacs Colloquium organized by the International Hydrological Programme (UNESCO) and the International Association of Hydrological Sciences. Thirty-five leading scientists with international reputations provide reviews of topical areas of research on water resource systems, including aspects of extreme hydrological events: floods and droughts; water quantity and quality dams; reservoirs and hydraulic structures; evaluating sustainability and climate change impacts. As well as discussing essential challenges and research directions, the book will assist in applying theoretical methods to the solution of practical problems in water resources. The authors are multi-disciplinary, stemming from such areas as: hydrology, geography, civil, environmental and agricultural engineering, forestry, systems sciences, operations research, mathematics, physics and geophysics, ecology and atmospheric sciences. This review volume will be valuable for graduate students, scientists, consultants, administrators, and practising hydrologists and water managers.

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