

1. Record Nr.	UNINA9910778626803321
Titolo	Risk analysis and uncertainty in flood damage reduction studies // Committee on Risk-Based Analysis for Flood Damage Reduction, Water Science and Technology Board, Commission on Geosciences, Environment, and Resources, National Research Council
Pubbl/distr/stampa	Washington, D.C. ; ; [Great Britain] : , : National Academy Press, , 2000
ISBN	0-309-13289-4 1-280-18536-8 9786610185368 0-309-56982-6
Descrizione fisica	1 online resource (216 pages) : illustrations, maps
Disciplina	363.34936
Soggetti	Flood damage prevention - Risk assessment Flood damage prevention - Research
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.
Nota di contenuto	""RISK ANALYSIS AND UNCERTAINTY IN FLOOD DAMAGE REDUCTION STUDIES""; ""Copyright""; ""Preface""; ""Contents""; ""Executive Summary""; ""APPLICATION OF RISK ANALYSIS TECHNIQUES""; ""Risk Measures and Modeling""; ""Economics""; ""CONSISTENT TERMINOLOGY""; ""LEVEE CERTIFICATION""; ""FLOODPLAIN MANAGEMENT""; ""1 The Corps and U.S. Flood Damage Reduction Planning, Policies, and Programs""; ""RISK ANALYSIS APPROACH""; ""THE CORPS'S WATER RESOURCES PROJECT PLANNING PROCEDURES""; ""From Principles and Standards to Principles and Guidelines"" ""U.S. FEDERAL FLOOD PREPAREDNESS, MITIGATION, AND RESPONSE ACTIVITIES"" ""The Galloway Report""; ""2 Decision Making and Communication Issues""; ""THE GOAL OF FLOODPLAIN MANAGEMENT""; ""MULTIPLE OBJECTIVES""; ""COMPARING PROJECT ALTERNATIVES""; ""FLOODPLAIN MANAGEMENT ALTERNATIVES""; ""RISK COMMUNICATION""; ""3 Risk Analysis Concepts and Terms""; ""UNCERTAINTY""; ""CONSISTENCY ACROSS PROGRAM AREAS""; ""RISK ANALYSIS AND DECISION MAKING""; ""4 Risk Analysis Techniques"";

""CORPS FRAMEWORK""; ""NATURAL VARIABILITY AND IMPERFECT KNOWLEDGE""; ""RISK ANALYSIS""; ""MONTE CARLO SIMULATION"" ""ASSESSMENT OF ENGINEERING PERFORMANCE"" ""GEOTECHNICAL RELIABILITY""; ""5 Case Studies""; ""BEARGRASS CREEK""; ""Flood Damage Reduction Measures""; ""Damage Reaches""; ""Flood Hydrology""; ""Rainfall-Runoff Model""; ""Uncertainty in Flood Discharge""; ""River Hydraulics""; ""Uncertainty in Flood Stage""; ""Economic Analysis""; ""Uncertainty in Flood Damage""; ""Project Planning""; ""Evaluation of Project Alternatives""; ""Risk of Flooding""; ""Effect on Project Economics of Including Risk and Uncertainty"" ""RED RIVER OF THE NORTH AT EAST GRAND FORKS, MINNESOTA, AND GRAND FORKS, NORTH DAKOTA"" ""Risk Analysis""; ""Discharge-Frequency Relationships""; ""Elevation-Discharge Relationships""; ""Risk and Uncertainty Analysis Results""; ""Project Reliability""; ""6 Evaluation and Proposed Improvements""; ""CONCERNS WITH THE RISK ANALYSIS METHODS""; ""ENGINEERING PERFORMANCE""; ""Knowledge Uncertainty""; ""HYDROLOGIC ANALYSIS""; ""Parameter Uncertainty for the LP3 Distribution""; ""Neglecting Skew Uncertainty""; ""Errors in Flood Frequency Curves Derived from Rainfall-Runoff Modeling"" ""Errors in the Stage-Discharge Relationship"" ""GEOTECHNICAL RELIABILITY""; ""ECONOMIC PERFORMANCE""; ""INTERDEPENDENCE IN RISK ANALYSIS FOR FLOOD DAMAGE ASSESSMENT""; ""CORRELATION LENGTH""; ""SPATIAL AGGREGATION""; ""COMPUTATIONAL ALTERNATIVES TO MINIMIZE CORRELATION EFFECTS""; ""Determine the Scale of Randomization""; ""Introduce Correlation in Monte Carlo Simulation""; ""Randomize Structures Jointly""; ""Randomize Hydrology and Hydraulics for River Reaches""; ""Analyze Statistical Variability in Project Benefits Rather than Damage""; ""Statistically Compare Net Benefits from Alternative Plans""
