



Engineering Reliability and Risk in Water Resources

Edited by
L. Duckstein and E.J. Plate

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Engineering Reliability And Risk In Water Resources Nato Science Series E

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Engineering Reliability And Risk In Water Resources Nato Science Series E:

Engineering Reliability and Risk in Water Resources L. Duckstein, Erich J. Plate, 2012-12-06 Hydraulic hydrologic and water resources engineers have been concerned for a long time about failure phenomena One of the major concerns is the definition of a failure event E of its probability of occurrence PtE and of the complementary notion of reliability However as the stochastic aspects of hydraulics and water resources engineering were developed words such as failure reliability and risk took on different meanings for different specialists For example risk is defined in a Bayesian framework as the expected loss resulting from a precisely defined failure event while according to the practice of stochastic hydraulics it is the probability of occurrence of a failure event The need to standardize the various concepts and operational definitions generated numerous exciting discussions between the co editors of this book during 1983 84 when L Duckstein under sponsorship of the Alexander von Humboldt Foundation FRG was working with E Plate at the Institute of Hydrology and Water Resources of the University of Karlsruhe After consulting with the Scientific Affairs Division of NATO an organizing committee was formed This committee J Bernier France M Benedini Italy S Sorooshian U S A and co directors L Duckstein U S A and E J Plate F R G brought into being this NATO Advanced Study Institute ASI Precisely stated the purpose of this ASI was to present a tutorial overview of existing work in the broad area of reliability while also pointing out topics for further development

Engineering Risk in Natural Resources Management L. Duckstein, E. Parent, 2013-11-11 The purpose of this paper is to present a methodology for estimating space time stochastic properties of local climatic factors reflecting global climate change Specifically daily precipitation amount and daily mean temperature are considered and illustrated with application to the state of Nebraska U S A Furthermore a drought index with and without global climate change is examined The magnitude and consequences of regional response to anticipated climatic changes are uncertain Houghton et al 1990 Typical questions to be answered are can time series of hydrological events or 10cal climatic variables such as daily temperature be conditioned in scenarios of future climate change and if so how can this be utilized Can extreme historical drought events be reproduced by a stochastic hydroclimatological model Can such a model be used with General Circulation Model GCM outputs to evaluate the regional local effects of climate change scenarios The approach presented in this paper is an extension of the usual analysis of regional hydrometeorological impacts of climate change we propose to examine time series of GCM produced daily atmospheric circulation patterns CP thought to be relatively accurate GCM output to estimate local climatic factors The paper is organized as follows First daily CPs are classified and analyzed statistically first for historical and then for GCM produced data Next the height of the 500 hPa pressure field is introduced as an additional physically relevant variable influencing local climatic factors within each CP type

Modelling Under Risk and Uncertainty Etienne de Rocquigny, 2012-04-30 Modelling has permeated virtually all areas of industrial environmental economic bio medical or civil engineering yet the use of models for decision making raises a number of issues to which this book is

dedicated How uncertain is my model Is it truly valuable to support decision making What kind of decision can be truly supported and how can I handle residual uncertainty How much refined should the mathematical description be given the true data limitations Could the uncertainty be reduced through more data increased modeling investment or computational budget Should it be reduced now or later How robust is the analysis or the computational methods involved Should could those methods be more robust Does it make sense to handle uncertainty risk lack of knowledge variability or errors altogether How reasonable is the choice of probabilistic modeling for rare events How rare are the events to be considered How far does it make sense to handle extreme events and elaborate confidence figures Can I take advantage of expert phenomenological knowledge to tighten the probabilistic figures Are there connex domains that could provide models or inspiration for my problem Written by a leader at the crossroads of industry academia and engineering and based on decades of multi disciplinary field experience Modelling Under Risk and Uncertainty gives a self consistent introduction to the methods involved by any type of modeling development acknowledging the inevitable uncertainty and associated risks It goes beyond the black box view that some analysts modelers risk experts or statisticians develop on the underlying phenomenology of the environmental or industrial processes without valuing enough their physical properties and inner modelling potential nor challenging the practical plausibility of mathematical hypotheses conversely it is also to attract environmental or engineering modellers to better handle model confidence issues through finer statistical and risk analysis material taking advantage of advanced scientific computing to face new regulations departing from deterministic design or support robust decision making Modelling Under Risk and Uncertainty Addresses a concern of growing interest for large industries environmentalists or analysts robust modeling for decision making in complex systems Gives new insights into the peculiar mathematical and computational challenges generated by recent industrial safety or environmental control analysis for rare events Implements decision theory choices differentiating or aggregating the dimensions of risk aleatory and epistemic uncertainty through a consistent multi disciplinary set of statistical estimation physical modelling robust computation and risk analysis Provides an original review of the advanced inverse probabilistic approaches for model identification calibration or data assimilation key to digest fast growing multi physical data acquisition Illustrated with one favourite pedagogical example crossing natural risk engineering and economics developed throughout the book to facilitate the reading and understanding Supports Master PhD level course as well as advanced tutorials for professional training Analysts and researchers in numerical modeling applied statistics scientific computing reliability advanced engineering natural risk or environmental science will benefit from this book

Environmental Security and Environmental Management: The Role of Risk Assessment Benoit Morel,Igor Linkov,2007-05-22 The concept of environmental security has emerged as one basis for understanding international conflicts This phrase can mean a variety of things It can signify security issues stemming from environmental concerns or conflicting needs or it can mean that the environment is treated as

a resource for the long term and the question is what should be done today to preserve the quality of the environment in the future In the same way that energy security is about ensuring access to energy for the long run it can also mean that pressing environmental concerns create a situation where different countries and communities are forced to collaboratively design a unified response even if cooperation is not generally in the logic of their relations Over the last several years the authors of this book and their colleagues have tried to demonstrate the power of risk assessment and decision analysis as valuable tools that decision makers should use for a broad range of environmental problems including environmental security Risk analysis is almost more a state of mind or a way of looking at problems than it is a kind of algorithm or a set of recipes It projects a kind of rationality on problems and forces a certain degree of quantitative rigor as opposed to the all too common tendency of making environmental recommendations based on anecdotal evidence

Comparative Risk Assessment and Environmental Decision Making Igor Linkov, Abou Bakr Ramadan, 2006-03-02 Decision making in environmental projects is typically a complex and confusing process characterized by trade offs between socio political environmental and economic impacts Comparative Risk Assessment CRA is a methodology applied to facilitate decision making when various activities compete for limited resources CRA has become an increasingly accepted research tool and has helped to characterize environmental profiles and priorities on the regional and national level CRA may be considered as part of the more general but as yet quite academic field of multi criteria decision analysis MCDA Considerable research in the area of MCDA has made available methods for applying scientific decision theoretical approaches to multi criteria problems but its applications especially in environmental areas are still limited The papers show that the use of comparative risk assessment can provide the scientific basis for environmentally sound and cost efficient policies strategies and solutions to our environmental challenges

Water Resources Engineering Risk Assessment Jacques Ganoulis, 2013-06-29 Although many theoretical developments have been achieved in recent years the progress both in understanding and application of risk and reliability analysis in water resources and environmental engineering remains slow One of the reasons seems to be the lack of training of engineers with phenomena of statistical nature including optimum cost and benefit decisions under uncertainty This book presents in a unified and comprehensive framework the various aspects of risk and reliability in both water quantity and quality problems The topics covered include uncertainty analysis of water quantity and quality data stochastic simulation of hydrosystems decision theory under uncertainty and case studies Methods for risk analysis of extremes in hydrology groundwater clean up river and coastal pollution as well as total risk management are presented

Handbook of Water Resources Management: Discourses, Concepts and Examples Janos J. Bogardi, Joyeeta Gupta, K. D. Wasantha Nandalal, Léna Salamé, Ronald R.P. van Nooijen, Navneet Kumar, Tawatchai Tingsanchali, Anik Bhaduri, Alla G. Kolechkina, 2021-06-12 This book provides an overview of facts theories and methods from hydrology geology geophysics law ethics economics ecology engineering sociology diplomacy and many other disciplines with relevance for concepts and practice of water resources

management It provides comprehensive but also critical reading material for all communities involved in the ongoing water discourses and debates The book refers to case studies in the form of boxes sections or as entire chapters They illustrate success stories but also lessons to be remembered to avoid repeating the same mistakes Based on consolidated state of the art knowledge it has been conceived and written to attract a multidisciplinary audience The aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi level decision making processes Knowing more about water but also about concepts methods and aspirations of different professional disciplinary communities and stakeholders professionalizes the debate and enhances the decision making *Water Resources Journal*, 2002

Hydrological Data Driven Modelling Renji Remesan, Jimson Mathew, 2014-11-03 This book explores a new realm in data based modeling with applications to hydrology Pursuing a case study approach it presents a rigorous evaluation of state of the art input selection methods on the basis of detailed and comprehensive experimentation and comparative studies that employ emerging hybrid techniques for modeling and analysis Advanced computing offers a range of new options for hydrologic modeling with the help of mathematical and data based approaches like wavelets neural networks fuzzy logic and support vector machines Recently machine learning artificial intelligence techniques have come to be used for time series modeling However though initial studies have shown this approach to be effective there are still concerns about their accuracy and ability to make predictions on a selected input space *Water Resources Management - Volume II* Hubert H.G. Savenije, Arjen Y. Hoekstra, 2009-04-27 Water Resources Management is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 2 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Water Resources Management and presents an integrated water resources management water and sustainable development water scarcity and the more technical aspects of water resources planning Important issues related to international rivers the economics of water and the legal and institutional aspects of water are addressed And new approaches to water conservation non waterborne sanitation and economic valuation are presented These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

Nitrate Contamination Istvan Bogardi, Robert D. Kuzelka, Wilma G. Ennenga, 2013-06-29 The nitrate content of drinking water is rising at an alarming rate in several regions of NATO countries and elsewhere in the world The increase is due to lack of proper sewage treatment and primarily to excess fertilizer application Also eutrophication in several coastal areas is triggered by high nitrate concentrations The main purpose of this book is to integrate scientific knowledge related to exposure assessment health consequences and control of nitrate contamination in water The motivation is related to the magnitude the possible adverse health effects and the high

cost of controlling nitrate contamination Future research tasks are defined by an interaction among hydrologists, toxicologists and environmental engineers in an integrated framework for nitrate risk management The target readership of this book is a mix of university colleagues, practitioners from both the private and public sectors and advanced graduate students working with the hydrological health science or environmental engineering aspects of nitrate contamination The main conclusions include 1 For risk assessment purposes, knowledge and sufficiently accurate models are available to predict nitrate load and its fate in water under changes in land use 2 Once agricultural exposure controls are implemented, the response times in ground water may be so long as to make controls unrealistic 3 It is still unknown whether agricultural best management practice is a compromise between nitrate risk reduction and agricultural revenue 4 The current drinking water guidelines of 10 mg/L NO₃-N need not be changed Books in Series, 1876-1949 R.R. Bowker Company, 1982

Coping with Floods Giuseppe Rossi, Nilgun B. Harmanciogammalu, V. Yevjevich, 2012-12-06 Floods are natural hazards whose effects can deeply affect the economic and environmental equilibria of a region Quality of life of people living in areas close to rivers depends on both the risk that a flood would occur and the reliability of flood forecast warning and control systems Tools for forecasting and mitigating floods have been developed through research in the recent past Two innovations currently influence flood hazard mitigation after many decades of lack of significant progress: they are the development of new technologies for real time flood forecast and warning based on weather radars and satellites and a shift from structural to non structural flood control measures due to increased awareness of the importance of protecting the environment and the adverse impacts of hydraulic works on it This book is a review of research progress booked in the improvements of forecast capability and the control of floods Mostly the book presents the results of recent research in hydrology, modern techniques of real time forecast and warning and ways of controlling floods for smaller impacts on the environment A number of case studies of floods in different geographical areas are also presented Scientists and specialists working in fields of hydrology, environmental protection and hydraulic engineering will appreciate this book for its theoretical and practical content

Risk, Reliability, Uncertainty, and Robustness of Water Resource Systems Janos J. Bogardi, Zbigniew W. Kundzewicz, 2002-01-28 35 leading multi disciplinary scientists with international reputations provide reviews of topical areas of research on uncertainty and reliability related aspects of water resource systems The volume will be valuable for graduate students, scientists, consultants, administrators and practising hydrologists and water managers *Water Resources Management in the Face of Climatic/Hydrologic Uncertainties* Zdzislaw Kaczmarek, Kenneth M. Strzepek, László Somlyódy, Valentina Priazhinskaya, 1996-04-30 This text is the first international and comprehensive discussion of the impacts of climatic fluctuations and climate change on water resources management The book presents an overview of the impacts of climatic change fluctuations on a wide variety of water resources sectors including river runoff, water quality, water temperature, water use and demand, reservoir management and water resource planning and management The book is unique

in that it then presents a series of case studies to both demonstrate the application of climate change impact assessment methodologies and to provide insights to catchment river basin and national scale impacts of climate change fluctuations on the water resources of Africa Europe and North America Audience Researchers scholars and students of hydrology and water management who are concerned with the issues of climate change as well as the climate change impact assessment community

Stochastic Hydrology and its Use in Water Resources Systems Simulation and Optimization J.B. Marco,R. Harboe,J.D. Salas,2012-12-06 Stochastic hydrology is an essential base of water resources systems analysis due to the inherent randomness of the input and consequently of the results These results have to be incorporated in a decision making process regarding the planning and management of water systems It is through this application that stochastic hydrology finds its true meaning otherwise it becomes merely an academic exercise A set of well known specialists from both stochastic hydrology and water resources systems present a synthesis of the actual knowledge currently used in real world planning and management The book is intended for both practitioners and researchers who are willing to apply advanced approaches for incorporating hydrological randomness and uncertainty into the simulation and optimization of water resources systems abstract Stochastic hydrology is a basic tool for water resources systems analysis due to inherent randomness of the hydrologic cycle This book contains actual techniques in use for water resources planning and management incorporating randomness into the decision making process Optimization and simulation the classical systems analysis technologies are revisited under up to date statistical hydrology findings backed by real world applications

Managing Water Under Uncertainty and Risk: United Nations World Water Development Report #4 (3 Vols.) UNESCO,2012-01-01 Released every three years since March 2003 the United Nations World Water Development Report WWDR a flagship UN Water report published by UNESCO has become the voice of the United Nations system in terms of the state use and management of the world s freshwater resources The report is primarily targeted at national decision makers and water resource managers but is also aimed at educating and informing a broader audience from governments to the private sector and civil society It underlines the important roles water plays in all social economic and environmental decisions highlighting policy implications across various sectors from local and municipal to regional and international levels Similarly to the first two editions this report includes a comprehensive and up to date assessment of several key challenge areas such as water for food energy and human health and governance challenges such as institutional reform knowledge and capacity building and financing each produced by individual UN agencies *Incorporation of Uncertainties in Real-time Catchment Flood Forecasting* Charles Steven Melching,Ben Chie Yen,Harry G. Wenzel,1987 **Road from Kyoto** United States. Congress. House. Committee on Science,1999 *Risk-based Decision Making in Water Resources* V Yacov Y. Haimos,David A. Moser,Eugene Z. Stakhiv,1992 This collection contains 29 papers presented at the Fifth Engineering Foundation Conference held in Santa Barbara California November 3 8 1991

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