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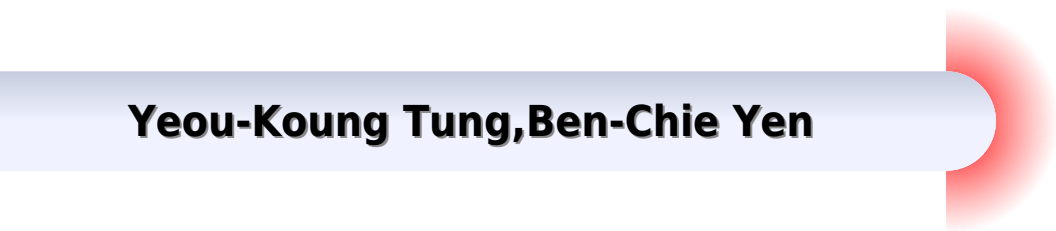


HYDRAULIC DESIGN

Edited by Ben Chiu-Yen and Yuen-Kuang Tung

Reliability And Uncertainty Analyses In Hydraulic Design

Yeou-Koung Tung, Ben-Chie Yen



Reliability And Uncertainty Analyses In Hydraulic Design:

Reliability and Uncertainty Analyses in Hydraulic Design Ben Chie Yen, Yeou-Koung Tung, 1993-01-01 Prepared by the Subcommittee on Uncertainty and Reliability Analyses in Design of Hydraulic Structures of the Technical Committee on Probabilistic Approaches to Hydraulics of ASCE This report contains 13 papers presenting the application of reliability analysis to the design and safety of hydraulic structures Several recent major failures of engineering systems have raised public concern on the safety and reliability of engineering structures Decades ago a quantitative evaluation of the reliability of structures was not possible and engineers used safety factors that were determined mainly through experience and judgement Recent advances in probability methods and computers make it feasible to evaluate the contributions of various technologic and natural factors to the safety and reliability of structures The first four papers in this report discuss techniques pertinent to reliability and uncertainty analyses The next nine papers explore how these techniques can be applied to dam safety coastal floods and hydraulic structures The report concludes with a reprint of an article by Vrijling on the Eastern Scheldt Storm Surge Barrier of the Delta Project in the Netherlands and the use of reliability analysis for sewer design

Reliability and Uncertainty Analyses in Hydraulic Design Ben Chie Yen, American Society of Civil Engineers. Subcommittee on Uncertainty and Reliability Analysis in Design of Hydraulic Structures, 1993-01-01 Since application of reliability analysis to hydraulic engineering covers a wide scope of sub fields this report presents a glimpse of some of the topics pertinent to the design and safety of hydraulic structures The first four papers discuss various techniques pertinent to reliability and uncertainty analyses

Uncertainty Modeling and Analysis in Civil Engineering Bilal M. Ayyub, 1997-12-29 With the expansion of new technologies materials and the design of complex systems the expectations of society upon engineers are becoming larger than ever Engineers make critical decisions with potentially high adverse consequences The current political societal and financial climate requires engineers to formally consider the factors of uncertainty e g floods earthquakes winds environmental risks in their decisions at all levels Uncertainty Modeling and Analysis in Civil Engineering provides a thorough report on the immediate state of uncertainty modeling and analytical methods for civil engineering systems presenting a toolbox for solving problems in real world situations Topics include Neural networks Genetic algorithms Numerical modeling Fuzzy sets and operations Reliability and risk analysis Systems control Uncertainty in probability estimates This compendium is a considerable reference for civil engineers as well as for engineers in other disciplines computer scientists general scientists and students

Hydrosystems Engineering Uncertainty Analysis Yeou-Koung Tung, Ben-Chie Yen, 2005-04-14 Failure of hydrosystems such as dams levees storm sewers or pollution control systems pose threats to the public safety and health as well as potentially inflict enormous damages on properties and environments Many failures of hydrosystems are mainly attributed by the existence of various uncertainties including inherent natural randomness and the lack of complete understanding of involved geophysical processes It is therefore

essential to systematically quantify the degree of uncertainty for the problem in hand so that reliability assessment and risk based design of hydrosystems can be made The conventional approach of frequency analysis of heavy rainfalls or large floods consider only portion of the uncertainties involved in hydrosystem engineering problems Over the past two decades or so there has been a steady growth on the development and application of uncertainty analysis techniques in hydrosystems engineering and other disciplines The aim of this book is to bring together these uncertainty analysis techniques in one book and to demonstrate their applications and limitations for a wide variety of hydrosystem engineering problems

Flood Issues in Contemporary Water Management J. Marsalek, W. Ed Watt, Evzen Zeman, Friedhelm Sieker, 2012-12-06 In 1997 disastrous flooding running through the Czech Republic Poland Germany took the lives of a great number of people and caused economic damage estimated in tens of billions of dollars Flooding of the Yangtze river in 1998 killed more than 3000 people dislocated 230 million souls and caused direct damage of more than 45 billion Both the general public and the experts are asking what we can learn from these recent events to reduce loss of life and flood damage The 1997 floods were dealt with by experts from the Czech Republic Poland and Germany who presented timely reports on combatting floods both success stories and shortcomings This experience is further extended by reports from experts drawn from 13 other countries developing a broad overview of flood risk management covering the ecosystem approach to flood management including socioeconomic issues flood impacts on water quality human health and natural ecosystems

Geotechnical Safety and Risk IV Limin Zhang, Yu Wang, Gang Wang, Li Dianqing, 2013-11-15 Geotechnical Safety and Risk IV contains the contributions presented at the 4th International Symposium on Geotechnical Safety and Risk 4th ISGSR Hong Kong 4-6 December 2013 which was organised under the auspices of the Geotechnical Safety Network GEOSNet TC304 on Engineering Practice of Risk Assessment and Management and TC205 on Safety and

Fluvial Hydrosystems G.E. Petts, C. Amoros, 2012-12-06 Fluvial Hydrosystems provides a unified approach to the study of running waters and aims to provide a scientific basis for sustainable management of rivers It differs from traditional texts in viewing rivers as structured four dimensional systems and integrating ecological and geomorphological approaches to provide a holistic perspective on river dynamics Advanced students of geomorphology ecology environmental science land use and civil engineering will all benefit from this wide ranging and stimulating textbook

Water/road Interaction Technology Series, 1997 *Hydraulic Design Handbook* Larry W. Mays, 1999 Hydraulics of pressurized flow Hydraulics of open channel flow Subsurface flow and transport Environmental hydraulics Sedimentation and erosion hydraulics Risk reliability based hydraulics engineering design Hydraulics design for energy generation Hydraulics of water distribution systems Pump system hydraulic design Water distribution system design Hydraulic transient design for pipeline systems Hydraulic design of drainage for highways Hydraulic design of urban drainage systems Hydraulics design of culverts and highway structures Hydraulic design of flood control channels Hydraulic design of spillways Hydraulic design of stilling basins and energy dissipators Floodplain

hydraulics Flow transitions and energy dissipators for culverts and channels Hydraulic design of flow measuring structures Water and wastewater treatment plant hydraulics Hydraulic design for groundwater contamination Artificial recharge of groundwater systems design and ma Stochastic Hydraulics 2000 Zhao-Yin Wang, Shi-Xiong Hu, 2020-12-17 The applications of stochastic methods in design by reliability include the better utilisation of hydrological information With statistical methods one can evaluate the safety component of hydraulic systems Based on these extra safety features can be added to ensure the reliable performance of an hydraulic system One such example is the design of a dam which features a number of random variables each with a very distinct and quite different probability function This book reports on developments in stochastic hydraulics across a wide range of applications including river hydraulics sediment transportation waves and coastal processes hydrology hydraulic works and structure and environmental hydraulics

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