
THE HYDRAULICS OF STEPPED

CHUTES AND SPILLWAYS

HUBERT CHANSON



The Hydraulics Of Stepped Chutes And Spillways

**Jianguo Zhou, Jianmin Zhang, Yong
Peng, Alistair Borthwick**



The Hydraulics Of Stepped Chutes And Spillways:

Hydraulics of Stepped Chutes and Spillways Hubert Chanson, 2002-01-01 Stepped channel design has been in use for more than 3 500 years Recent advances in technology have triggered a regained interest in stepped design although much expertise has been lost in the last 80 years The steps significantly increase the rate of energy dissipation taking place along the chute and reduce the size of the required downstream energy dissipation basin Stepped cascades are also used in water treatment plants to enhance the air water transfer of atmospheric gases e g oxygen nitrogen and of volatile organic components VOC Results from more than forty five laboratory studies and four prototype investigations were re analysed and compared The book provides a new understanding of stepped channel hydraulics and is aimed both at researchers and professionals

Hydraulic Design of Stepped Cascades, Channels, Weirs, and Spillways Hubert Chanson, 1994 Stepped channels and spillways have been used for more than 2 500 years but recently new construction materials have renewed interest in stepped chutes The steps significantly increase the rate of energy dissipation taking place on the spillway face and reduce the size of the required downstream energy dissipation basin Stepped cascades are also used in water treatment plants to enhance the air water transfer of atmospheric gases and of volatile organic components This book presents new material on the hydraulic characteristics of stepped chute flows Two different flow regimes can occur nappe flow regime for small discharges and flat channel slopes and skimming flow regime the hydraulics of each flow regime are described The book also covers the effects of flow aeration and air bubble entrainment as well as the process of air water gas transfer taking place above the stepped chute Practical examples of hydraulic design and a critical review of the risks of accidents and failures with stepped channels makes this book an essential reference tool for professional engineers postgraduates and researchers in the field

Hydraulics of Stepped Spillways H.-E. Minor, W.H. Hager, 2020-08-13 This book provides a discussion of the latest research pertaining to the hydraulic design of spilways and to hydraulic engineering in general It comprises the papers of a workshop organized to bring together engineers and scientists from around the world for the exchange of ideas on water flow over stepped spillways This workshop covered a range of subjects from two phase flow characteristics to refurbishment and implementation of spillways in existing dam structures and the book also includes a number of illustrative case studies Overall this book is one of the first in the rapidly growing field of modern hydraulic engineering techniques It will interest designers scientists and graduate students and researchers in the fields of hydraulic civil and environmental engineering

Energy Dissipation in Hydraulic Structures Hubert Chanson, 2015-05-12 Recent advances in technology have permitted the construction of large dams reservoirs and channels This progress has necessitated the development of new design and construction techniques particularly with the provision of adequate flood release facilities Chutes and spillways are designed to spill large water discharges over a hydraulic struc

Hydraulics of Spillways and Energy Dissipators Rajnikant M. Khatsuria, 2004-10-27 An unsurpassed treatise on the state of the science in

the research and design of spillways and energy dissipators Hydraulics of Spillways and Energy Dissipators compiles a vast amount of information and advancements from recent conferences and congresses devoted to the subject It highlights developments in theory and practice and emphasizing top

Fluvial, Environmental and Coastal Developments in Hydraulic Engineering Michele Mossa, Youichi Yasuda, Hubert Chanson, 2004-12-05 Comprising the Proceedings of the International Workshop on State of the Art Hydraulic Engineering held in Bari Italy on 16-19 February 2004 this volume presents an in depth investigation of the energy loss of skimming flows under a range of discharges step and dam heights and channel slopes Including a wealth of information the volume is div

Hydraulics of Dam and River Structures Farhad Yazdandoost, Jalal Attari, 2004-08 This book comprises the papers of the International Conference on Hydraulics of Dams and Rivers Structures held in Tehran 26-28 April 2004 The topics covered include air water flows intakes and outlets hydrodynamic forces energy dissipators stepped spillways scouring and sedimentation around structures numerical approaches in river hydrodynamics river response to hydraulic structures and hydroinformatic applications This proceedings provides professionals and researchers with news of interdisciplinary research findings considering future development of the sector in its many and various applications

Introduction to the Numerical Modeling of Groundwater and Geothermal Systems Jochen Bundschuh, Mario César Suárez A., 2010-07-05 This book provides an introduction to the scientific fundamentals of groundwater and geothermal systems In a simple and didactic manner the different water and energy problems existing in deformable porous rocks are explained as well as the corresponding theories and the mathematical and numerical tools that lead to modeling and solving them This approach provides the reader with a thorough understanding of the basic physical laws of thermoporoelastic rocks the partial differential equations representing these laws and the principal numerical methods which allow finding approximate solutions of the corresponding mathematical models The book also presents the form in which specific useful models can be generated and solved The text is introductory in the sense that it explains basic themes of the systems mentioned in three areas engineering physics and mathematics All the laws and equations introduced in this book are formulated carefully based on fundamental physical principles This way the reader will understand the key importance of mathematics applied to all the subjects Simple models are emphasized and solved with numerous examples For more sophisticated and advanced models the numerical techniques are described and developed carefully This book will serve as a synoptic compendium of the fundamentals of fluid solute and heat transport applicable to all types of subsurface systems ranging from shallow aquifers down to deep geothermal reservoirs The book will prove to be a useful textbook to senior undergraduate and graduate students postgraduates professional geologists and geophysicists engineers mathematicians and others working in the vital areas of groundwater and geothermal resources

Hydraulic Engineering of Dams Willi H. Hager, Anton J. Schleiss, Robert M. Boes, Michael Pfister, 2020-11-05 Hydraulic engineering of dams and their appurtenant structures counts among the essential tasks to successfully design safe water retaining

reservoirs for hydroelectric power generation flood retention and irrigation and water supply demands In view of climate change especially dams and reservoirs among other water infrastructure will and have to play an even more important role than in the past as part of necessary mitigation and adaptation measures to satisfy vital needs in water supply renewable energy and food worldwide as expressed in the Sustainable Development Goals of the United Nations This book deals with the major hydraulic aspects of dam engineering considering recent developments in research and construction namely overflow conveyance and dissipations structures of spillways river diversion facilities during construction bottom and low level outlets as well as intake structures Furthermore the book covers reservoir sedimentation impulse waves and dambreak waves which are relevant topics in view of sustainable and safe operation of reservoirs The book is richly illustrated with photographs highlighting the various appurtenant structures of dams addressed in the book chapters as well as figures and diagrams showing important relations among the governing parameters of a certain phenomenon An extensive literature review along with an updated bibliography complete this book Hydraulic Structures P. Novak,A.I.B. Moffat,C. Nalluri,R. Narayanan,2017-12-21 Now includes Worked Examples for lecturers in a companion pdf The fourth edition of this volume presents design principles and practical guidance for key hydraulic structures Fully revised and updated this new edition contains enhanced texts and sections on environmental issues and the World Commission on Dams partially saturated soils small amenity dams tailing dams upstream dam face protection and the rehabilitation of embankment dams RCC dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics pipeline stability wave structure interaction and coastal modelling computational models in hydraulic engineering The book s key topics are explored in two parts dam engineering and other hydraulic structures and the text concludes with a chapter on models in hydraulic engineering Worked numerical examples supplement the main text and extensive lists of references conclude each chapter Hydraulic Structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers designers and other professionals *River Flow 2020* Wim Uijttewaalt,Mário J. Franca,Daniel Valero,Victor Chavarrias,Clàudia Ylla Arbós,Ralph Schielen,Alessandra Crosato,2020-08-27 Rivers form one of the lifelines in our society by providing essential services such as availability of fresh water navigation energy ecosystem services and flood conveyance Because of this essential role mankind has interfered continuously in order to benefit most and at the same time avoid adverse consequences such as flood risk and droughts This has resulted in often highly engineered rivers with a narrow set of functions In the last decades rivers are increasingly considered in a more holistic manner as a system with a multitude of interdependent processes River research and engineering has therefore added to the river fundamentals also themes like ecohydraulics consequences of climate change and urbanisation River Flow 2020 contains the contributions presented at the 10th conference on Fluvial Hydraulics River

Flow 2020 organised under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR What should have been a lively physical gathering of researchers students and practitioners was converted into an online event as the COVID 19 pandemic hindered international travelling and large gatherings of people Nevertheless the fluvial hydraulics community showed their interest and to be very much alive with a high number of participations for such event Since its first edition in 2002 in Louvain la Neuve this series of conferences has found a large and loyal audience in the river research and engineering community while being also attractive to the new researchers and young professionals This is highlighted by the large number of contributions applying for the Coleman award for young researchers and also by the number of applications and attendants to the Master Classes which are aimed at young researchers and students River Flow 2020 aims to provide an updated overview of the ongoing research in this wide range of topics and contains five major themes which are focus of research in the fluvial environment river fundamentals the digital river the healthy river extreme events and rivers under pressure Other highlights of River Flow 2020 include the substantial number of interdisciplinary subthemes and sessions of special interest The contributions will therefore be of interest to academics in hydraulics hydrology and environmental engineering as well as practitioners that would like to be updated about the newest findings and hot themes in river research and engineering

Hydraulics of Dams and River Structures

Farhad Yazdandoost, Jalal Attari, 2004-04-15 This book comprises the papers of the International Conference on Hydraulics of Dams and Rivers Structures held in Tehran 26-28 April 2004 The topics covered include air water flows intakes and outlets hydrodynamic forces energy dissipators stepped spillways scouring and sedimentation around structures numerical approaches in river hydrody

Hydraulics of Open Channel Flow Hubert Chanson, 2004-05-25 Since the publication of its first edition in 1999 The Hydraulics of Open Channel Flow has been praised by professionals academics students and researchers alike as the most practical modern textbook on open channel flow available This new edition includes substantial new material on hydraulic modelling in particular addressing unsteady open channel flows There are also many new exercises and projects including a major new revision assignment This innovative textbook contains numerous examples and practical applications and is fully illustrated with photographs Dr Chanson introduces the basic principles of open channel flow and takes readers through the key topics of sediment transport hydraulic modelling and the design of hydraulic structures Comprehensive coverage of the basic principles of key application areas of the hydraulics of open channel flow New exercises and examples added to aid understanding Ideal for use by students and lecturers in civil and environmental engineering

Drinking Water Treatment, Water Quality and Clarification Kader Gaid, 2023-08-15 Today hundreds of millions of people drink contaminated water without knowing it Yet water treatment technologies can effectively eliminate contamination and can supply urban and rural populations with safe drinking water in a secure way For almost two centuries the huge number of treatments available to guarantee water quality has grown alongside technological progress the

strengthening of industry norms and the reinforcement of consumer expectations New treatment methods have been developed according to the advancement of knowledge and new sanitary regulations This five volume book sets out to clearly present the variety of treatments available along with their performance limitations and conditions of use as well as ways to combine them to produce safe drinking water which is a basic need essential to everyday life The author shares his expertise acquired at Veolia a company that is a world leader in water services and sanitation desalination of sea water and the recycling of wastewater Founded in France in 1853 to bring safe water to populations and to protect them from waterborne epidemics which ravaged cities its history is intertwined with that of water treatment

Hydraulic Structures C S James, 2019-12-19 This graduate upper division undergraduate textbook provides a solid grounding in the theory underlying the design and analysis of hydraulic structures including spillways energy dissipators culverts flow measuring structures and others It describes well established theory and procedures as well as recent developments gleaned from the research literature with a design oriented perspective Professor James provides all of the necessary detail for many practical design applications while retaining a concise presentation with ample references to many comprehensive supplementary design guides Appropriate for upper level undergraduate and graduate civil engineering student and practitioners in the field the book fosters an understanding of and competence in applying basic theoretical concepts Focuses on the hydraulic rather than structural aspects of hydraulic structures with an extensive review of relevant basic hydraulic theory Explains clearly the concept of hydraulic control and how controls govern the behavior of different structures Reinforces concepts presented with exercise problems set at the ends of chapters Provides an extensive review of relevant basic hydraulic theory along with comprehensive references to primary sources and detailed design guides Illustrates applications with topical worked examples

Hydrodynamics Harry Schulz, Raquel Lobosco, André Simoes, 2012-01-05 The knowledge of the characteristics of the fluids and their ability to transport substances and physical properties is relevant for us However the quantification of the movements of fluids is a complex task and when considering natural flows occurring in large scales rivers lakes oceans this complexity is evidenced This book presents conclusions about different aspects of flows in natural water bodies such as the evolution of plumes the transport of sediments air water mixtures among others It contains thirteen chapters organized in four sections Tidal and Wave Dynamics Rivers Lakes and Reservoirs Tidal and Wave Dynamics Seas and Oceans Tidal and Wave Dynamics Estuaries and Bays and Multiphase Phenomena Air Water Flows and Sediments The chapters present conceptual arguments experimental and numerical results showing practical applications of the methods and tools of Hydrodynamics

Dams and Appurtenant Hydraulic Structures, 2nd edition Ljubomir Tanchev, 2014-03-03 Dams and Appurtenant Hydraulic Structures now in its second edition provides a comprehensive and complete overview of all kinds of dams and appurtenant hydraulic structures throughout the world The reader is guided through different aspects of dams and appurtenant hydraulic structures in 35 chapters which are subdivided in five themes I Dams an

Labyrinth and Piano Key

Weirs II Sébastien Erpicum, Frédéric Laugier, Michael Pfister, Michel Piroton, Guy-Michel Cicero, Anton J. Schleiss, 2013-10-21 Dam engineering is currently experiencing a strong revival of labyrinth oriented weirs Labyrinth weirs with a repetitive constructional character and an increased specific discharge capacity are a very good technical economical compromise The concept of Piano Key Weir PKW with alveoli developed in overhangs from a reduced support area enables the installation of non linear crests at the top of concrete dams As a result it eliminates the main drawback of classical labyrinth weirs and enables their use to rehabilitate numerous existing dams Since the first implementation of piano key weirs by Electricité de France on Goulours dam France in 2006 at least eight PKWs have been built in France Vietnam and Switzerland Their operation over a few years has already provided the first prototype data Other projects are under study construction or planning in varied countries On another hand research programs are under progress all over the world Following a first edition in 2011 Labyrinth and Piano Key Weirs II PKW 2013 collects up to date contributions from people with various backgrounds from engineers and researchers to academics Summarizing the last developments on labyrinth oriented weirs the book constitutes the state of the art in research and application of piano key weir solutions and will be invaluable to professionals and scientists interested in Dams Engineering

Ancient Water Technologies L. Mays, 2010-05-19 There is no more fundamental resource than water The basis of all life water is fast becoming a key issue in today's world as well as a source of conflict This fascinating book which sets out many of the ingenious methods by which ancient societies gathered transported and stored water is a timely publication as overextraction and profligacy threaten the existence of aquifers and watercourses that have supplied our needs for millennia It provides an overview of the water technologies developed by a number of ancient civilizations from those of Mesopotamia and the Indus valley to later societies such as the Mycenaeans Minoans Persians and the ancient Egyptians Of course no book on ancient water technologies would be complete without discussing the engineering feats of the Romans and Greeks yet as well as covering these key civilizations it also examines how ancient American societies from the Hohokams to the Mayans and Incas husbanded their water supplies This unusually wide ranging text could offer today's parched world some solutions to the impending crisis in our water supply This book provides valuable insights into the water technologies developed in ancient civilizations which are the underpinning of modern achievements in water engineering and management practices It is the best proof that the past is the key for the future Andreas N Angelakis Hellenic Water Supply and Sewerage Systems Association Greece This book makes a fundamental contribution to what will become the most important challenge of our civilization facing the global crisis the problem of water Ancient Water Technologies provides a complete panorama of how ancient societies confronted themselves with the management of water The role of this volume is to provide for the first time on this issue an extensive historical and scientific reconstruction and an indication of how traditional knowledge may be employed to ensure a sustainable future for all Pietro Laureano UNESCO expert for ecosystems at risk Director of IPOGEA Institute of Traditional Knowledge Italy

Advances in Hydraulics and Hydroinformatics Jianguo Zhou, Jianmin Zhang, Yong Peng, Alistair Borthwick, 2020-12-29

This Special Issue reports on recent research trends in hydraulics hydrodynamics and hydroinformatics and their novel applications in practical engineering The Issue covers a wide range of topics including open channel flows sediment transport dynamics two phase flows flow induced vibration and water quality The collected papers provide insight into new developments in physical mathematical and numerical modelling of important problems in hydraulics and hydroinformatics and include demonstrations of the application of such models in water resources engineering

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