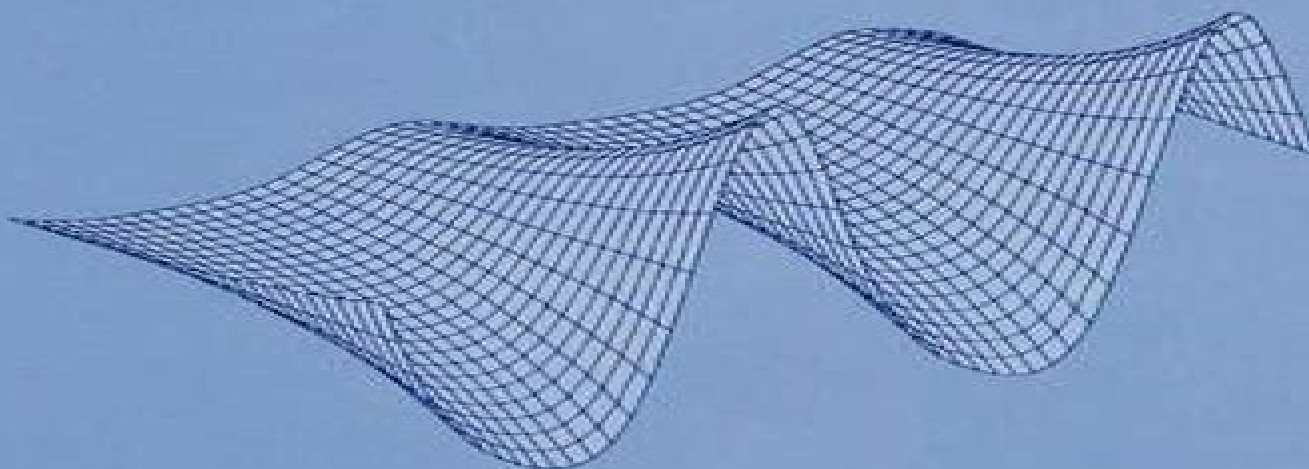


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NUMERICAL METHODS FOR SHALLOW-WATER FLOW

by

C. B. Vreugdenhil



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D.E. Agthe, R.B. Billings, N. Buras



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Numerical Methods for Shallow-Water Flow C.B. Vreugdenhil, 1994-10-31 A wide variety of problems are associated with the flow of shallow water such as atmospheric flows tides storm surges river and coastal flows lake flows tsunamis Numerical simulation is an effective tool in solving them and a great variety of numerical methods are available The first part of the book summarizes the basic physics of shallow water flow needed to use numerical methods under various conditions The second part gives an overview of possible numerical methods together with their stability and accuracy properties as well as with an assessment of their performance under various conditions This enables the reader to select a method for particular applications Correct treatment of boundary conditions often neglected is emphasized The major part of the book is about two dimensional shallow water equations but a discussion of the 3 D form is included The book is intended for researchers and users of shallow water models in oceanographic and meteorological institutes hydraulic engineering and consulting It also provides a major source of information for applied and numerical mathematicians

Numerical Methods for Shallow-Water Flow C.B. Vreugdenhil, 2013-03-09 A wide variety of problems are associated with the flow of shallow water such as atmospheric flows tides storm surges river and coastal flows lake flows tsunamis Numerical simulation is an effective tool in solving them and a great variety of numerical methods are available The first part of the book summarizes the basic physics of shallow water flow needed to use numerical methods under various conditions The second part gives an overview of possible numerical methods together with their stability and accuracy properties as well as with an assessment of their performance under various conditions This enables the reader to select a method for particular applications Correct treatment of boundary conditions often neglected is emphasized The major part of the book is about two dimensional shallow water equations but a discussion of the 3 D form is included The book is intended for researchers and users of shallow water models in oceanographic and meteorological institutes hydraulic engineering and consulting It also provides a major source of information for applied and numerical mathematicians

Water Quality Modelling for Rivers and Streams Marcello Benedini, George Tsakiris, 2013-02-11 The main objective of the Water Framework Directive in the European countries is to achieve a good status of all the water bodies in the integrated management of river basins In order to assess the impact of improvement measures water quality models are necessary During the previous decades the progress in computer technology and computational methods has supported the development of advanced mathematical models for pollutant transport in rivers and streams This book is intended to provide the fundamental knowledge needed for a deeper understanding of these models and the development of new ones which will fulfil future quality requirements in water resources management This book focuses on the fundamentals of computational techniques required in water quality modelling Advection dispersion and concentrated sources or sinks of contaminants lead to the formulation of the fundamental differential equation of pollutant transport Its integration according to appropriate initial and boundary conditions and with

the knowledge of the velocity field allows for pollutant behaviour to be assessed in the entire water body An analytical integration is convenient only in one dimensional approach with considerable simplification Integration in the numerical field is useful for taking into account particular aspects of water body and pollutants To ensure their reliability the models require accurate calibration and validation based on proper data taken from direct measurements In addition sensitivity and uncertainty analysis are also of utmost importance All the above items are discussed in detail in the 21 chapters of the book which is written in a didactic form for professionals and students

Spectral Numerical Weather Prediction Models Martin Ehrendorfer, 2012-01-01 This book provides a comprehensive overview of numerical weather prediction NWP focusing on the application of the spectral method in NWP models The author illustrates the use of the spectral method in theory as well as in its application to building a full prototypical spectral NWP model from the formulation of continuous model equations through development of their discretized forms to coded statements of the model The author describes the implementation of a specific model PEAK Primitive Equation Atmospheric Research Model Kernel to illustrate the steps needed to construct a global spectral NWP model The book brings together all the spectral time and vertical discretization aspects relevant for such a model It provides readers with information necessary to construct spectral NWP models a self contained well documented coded spectral NWP model and theoretical and practical exercises some of which include solutions

Rare Earth Elements in Groundwater Flow Systems Karen H. Johannesson, 2006-03-30 Rare Earth Elements in Groundwater Flow Systems is the first volume of its kind entirely focused on the geochemistry of the lanthanide series elements in groundwater aquifer environments Consisting of ten chapters each of which is an original peer reviewed contribution by some of the leading researchers in the study of the low temperature geochemistry of rare earth elements the volume addresses analytical techniques water rock interactions aqueous complexation and the reactions processes that influence these heavy metals along groundwater flow paths

Unsteady Flow in Open Channels Jurjen A. Battjes, Robert Jan Labeur, 2017-02-16 This book provides a unifying framework for understanding and computing unsteady flow and transport in shallow one dimensional open water systems

Methods and Tools for Drought Analysis and Management Giuseppe Rossi, Teodoro Vega, Brunella Bonaccorso, 2007-07-26 Implementation of effective drought management policies requires both advanced technologies and appropriate methods Monitoring and forecasting systems practical tools for risk assessment as well as simple and objective criteria to select and implement appropriate drought mitigation measures are key elements for a successful drought management strategy These key issues have been tackled by universities and public agencies involved in the EU projects Sedemed and Sedemed II Programme Interreg IIIB MEDOCC aimed at the definition of an integrated network for real time monitoring of drought the development of common methodologies for drought analysis and forecasting as well as the definition of proper mitigation strategies for the Mediterranean countries The book presents the main outcomes of such projects with a special focus on drought monitoring and forecasting techniques at different spatial scales

new or modified agrometeorological indices and remote sensing technique for drought identification and characterization tools to improve surface water resources management under drought conditions methods and tools for groundwater resources monitoring and management based on hydrogeological and hydrodynamics characteristics of aquifers general criteria to select and implement mitigation strategies to prevent or minimize drought impacts Groundwater Recharge from Run-off, Infiltration and Percolation K.-P. Seiler,J.R. Gat,2007-09-26 To face the threats to the water supply and to maintain sustainable water management policies detailed knowledge is needed on the surface to subsurface transformation link in the water cycle Recharge flux is covered in this book as well as many other groundwater issues including a comparison of the traditional and modern approaches to determine groundwater recharge The authors also explain in detail the fate of groundwater recharge in the subsurface by hydraulic and geologic means in order to stimulate adapted groundwater management strategies **Entropy-Based Parameter Estimation in Hydrology** V.P. Singh,2013-04-17 Since the pioneering work of Shannon in the late 1940 s on the development of the theory of entropy and the landmark contributions of Jaynes a decade later leading to the development of the principle of maximum entropy POME the concept of entropy has been increasingly applied in a wide spectrum of areas including chemistry electronics and communications engineering data acquisition and storage and retrieval data monitoring network design ecology economics environmental engineering earth sciences fluid mechanics genetics geology geomorphology geophysics geotechnical engineering hydraulics hydrology image processing management sciences operations research pattern recognition and identification photogrammetry psychology physics and quantum mechanics reliability analysis reservoir engineering statistical mechanics thermodynamics topology transportation engineering turbulence modeling and so on New areas finding application of entropy have since continued to unfold The entropy concept is indeed versatile and its applicability widespread In the area of hydrology and water resources a range of applications of entropy have been reported during the past three decades or so This book focuses on parameter estimation using entropy for a number of distributions frequently used in hydrology In the entropy based parameter estimation the distribution parameters are expressed in terms of the given information called constraints Thus the method lends itself to a physical interpretation of the parameters Because the information to be specified usually constitutes sufficient statistics for the distribution under consideration the entropy method provides a quantitative way to express the information contained in the distribution Open Channel Hydraulics, River Hydraulic Structures and Fluvial Geomorphology Artur Radecki-Pawlik,Stefano Pagliara,Jan Hradecky,2017-09-07 This book presents practical hydraulic and river engineering research along with fluvial geomorphological concepts and links the theoretical and practical knowledge of people working every day with rivers streams and hydraulic structures to fluvial geomorphology Besides providing a guide for professionals this book also provides material for students to acquire the knowledge and skills to rehabilitate rivers streams and waterways **Water-Quality Hydrology** V.P. Singh,Bhishm Kumar,2012-12-06 Water is

vital to life maintenance of ecological balance economic development and sustenance of civilization Planning and management of water resources and its optimal use are a matter of urgency for most countries of the world and even more so for India with a huge population Growing population and expanding economic activities exert increasing demands on water for varied needs domestic industrial agricultural power generation navigation recreation etc In India agriculture is the highest user of water The past three decades have witnessed numerous advances as well as have presented intriguing challenges and exciting opportunities in hydrology and water resources Compounding them has been the growing environmental consciousness Nowhere are these challenges more apparent than in India As we approach the twenty first century it is entirely fitting to take stock of what has been accomplished and what remains to be accomplished and what accomplishments are relevant with particular reference to Indian conditions

Water-Rock Interaction Ingrid Stober, Kurt Bucher, 2002 The chemical interaction of water and rock is one of the most fascinating and multifaceted process in geology The composition of surface water and groundwater is largely controlled by the reaction of water with rocks and minerals At elevated temperature hydrothermal features hydrothermal ore deposits and geothermal fields are associated with chemical effects of water rock interaction Surface outcrops of rocks from deeper levels in the crust including exposures of lower crustal and mantle rocks often display structures that formed by interaction of the rocks with a supercritical aqueous fluid at very high pT conditions Understanding water rock interaction is also of great importance to applied geology and geochemistry particularly in areas such as geothermal energy nuclear waste repositories and applied hydrogeology The extremely wide ranging research efforts on the universal water rock interaction process is reflected in the wide diversity of themes presented at the regular International Symposia on Water Rock Interaction WRI Because of the large and widespread interest in water rock interaction the European Union of Geosciences organized a special symposium on water rock interaction at EUGIO the biannual meeting in Strasbourg 1999 convened by the editors of this volume In contrast to the regular WRI symposia addressed to the specialists the EUG 10 water rock interaction symposium brought the subject to a general platform This very successful symposium showed the way to the future of water rock reaction research

Shallow Water Hydraulics Oscar Castro-Orgaz, Willi H. Hager, 2019-11-08 This book presents the theory and computation of open channel flows using detailed analytical numerical and experimental results The fundamental equations of open channel flows are derived by means of a rigorous vertical integration of the RANS equations for turbulent flow In turn the hydrostatic pressure hypothesis which forms the core of many shallow water hydraulic models is scrutinized by analyzing its underlying assumptions The book's main focus is on one dimensional models including detailed treatments of unsteady and steady flows The use of modern shock capturing finite difference and finite volume methods is described in detail and the quality of solutions is carefully assessed on the basis of analytical and experimental results The book's unique features include Rigorous derivation of the hydrostatic based shallow water hydraulic models Detailed treatment of steady open channel flows

including the computation of transcritical flow profiles General analysis of gate maneuvers as the solution of a Riemann problem Presents modern shock capturing finite volume methods for the computation of unsteady free surface flows Introduces readers to movable bed and sediment transport in shallow water models Includes numerical solutions of shallow water hydraulic models for non hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students given that the theory and numerical methods are progressively introduced starting with the basics As supporting material a collection of source codes written in Visual Basic and inserted as macros in Microsoft Excel is available The theory is implemented step by step in the codes and the resulting programs are used throughout the book to produce the respective solutions *Hilbert-Huang Transform Analysis of Hydrological and Environmental Time Series* A.R. Rao,E.-C. Hsu,2008-01-08 The Hilbert Huang Transform HHT is a recently developed technique used to analyze nonstationary data This book uses methods based on the Hilbert Huang Transform to analyze hydrological and environmental time series These results are compared to the results from the traditional methods such as those based on Fourier transform and other classical statistical tests *Managing Urban Water Supply* D.E. Agthe,R.B. Billings,N. Buras,2013-06-29 We the editors have long believed that a strong knowledge of relatively simple economic and engineering concepts is valuable in solving water management problems The lack of such knowledge has been apparent to us in some of the journal articles research proposals and books we have reviewed The articles which have been written concerning specific local water economies and management issues are scattered over a wide variety of journals making them hard to access Most of the extensive water resources literature is concerned with large regional water projects or with narrow technical and regional issues This book was written to make practical economic and engineering concepts readily available to urban water supply managers thereby filling a gap in the available literature It is concerned with decisions made daily monthly or annually by managers of urban water supply systems The book includes basic chapters presenting supply and cost concepts calculation of demand elasticities use of marketing concepts public goods analysis water markets industrial water demand and the use of price in water conservation The authors have included multiple examples of how these concepts can aid in managing urban water supply The water provider is generally a governmental entity or regulated private utility Most books on public utilities and their management emphasize gas electricity or telephone rather than water Water is different because of its variations in quality by source and the necessity for proper disposal of waste water

The Brahmaputra Basin Water Resources V.P. Singh,Nayan Sharma,C. Shekhar P. Ojha,2013-03-09 The Brahmaputra River is a precious gift of Nature to India and especially to its northeast region The meaning of this gift becomes evident immediately when one considers the vastness of water resources which the Brahmaputra River basin possesses Nearly 30% of India's water resources potential and 41% of the country's total hydropower potential are found in this basin In terms of the average discharge the Brahmaputra River is the fifth largest river in the world Traversing a distance of about 2 900

kilometers from Tibet at an elevation of 5 150 meters to the Bay of Bengal and draining an area of nearly 1 6 million square kilometres shared by Tibet India and Bangladesh it has shaped the social economic cultural religious political and linguistic fabric of the northeast region of India from time immemorial Its majestic disposition is nothing short of poetic The northeast region has a colourful ethnic and non ethnic population and represents almost a miniature India Its biodiversity of flora and fauna and other natural ecosystems is unsurpassable The northeast region of India is endowed with enormous natural resources and the huge potential of the Brahmaputra River basin These resources notwithstanding this part of India remains woefully underdeveloped The current state of low development of the northeast region can arguably be attributed to a multitude of factors

Drought Management Planning in Water Supply Systems Enrique Cabrera, Jorge

García-Serra, 2013-06-29 During the past decade many countries in the world have experienced droughts with severe impacts on water urban supply systems Because droughts are natural phenomena water utilities must design and implement drought management plans This topic was selected for the International Course on Drought Management Planning in Water Supply Systems which took place in Valencia Spain on 9 12 December 1997 and was hosted by the Universidad Internacional Menéndez y Pelayo UIMP The contributions in this book have been carefully selected and presented in four sections Introduction Water Supply Systems Modernization Drought Management in an Urban Context Practical Cases Israel USA Italy Spain To achieve a well balanced approach authors were invited from academia as well as from consultancies and water utilities and have wide experience in the subject The book is mainly aimed at water supply engineers working in utilities and consultancies

Water Supply Management D. Stephenson, 2012-12-06 Supply of sufficient clean drinking water is often

taken for granted but it requires a considerable technical and financial effort to ensure reliable and economic water supply This volume presents an up to date overview of water supply management and aims at efficient management of water supply schemes rather than design of new works Various chapters of the book are devoted to water demands management of reservoirs and conjunctive use of alternative sources Asset management and loss control are also considered Water quality and provision of water to developing communities are also discussed Water supply management is of concern to developed urban environments as well as developing communities The book will be equally valuable to the practising water engineer and the newcomer or graduate student in the subject

Geographical Information Systems in Hydrology V.P. Singh, M.

Fiorentino, 2013-03-09 The last few years have witnessed an enormous interest in application of GIS in hydrology and water resources This is partly evidenced by organization of several national and international symposia or conferences under the sponsorship of various professional organizations This increased interest is in a large measure in response to growing public sensitivity to environmental quality and management The GIS technology has the ability to capture store manipulate analyze and visualize the diverse sets of geo referenced data On the other hand hydrology is inherently spatial and distributed hydrologic models have large data requirements The integration of hydrology and GIS is therefore quite natural The

integration involves three major components 1 spatial data construction 2 integration of spatial model layers and 3 GIS and model interface GIS can assist in design calibration modification and comparison of models This integration is spreading worldwide and is expected to accelerate in the foreseeable future Substantial opportunities exist in integration of GIS and hydrology We believe there are enough challenges in use of GIS for conceptualizing and modeling complex hydrologic processes and for globalization of hydrology The motivation for this book grew out of the desire to provide under one cover a range of applications of GIS technology in hydrology It is hoped that the book will stimulate others to write more comprehensive texts on this subject of growing importance

Environmental Hydraulics V.P. Singh, Willi H. Hager, 2013-06-29 Triggered primarily by ill effects of polluted air soil and water resources on living species public concern for environmental quality has been growing during the past four decades or so One manifestation of this concern is found in occurrence of public debates as well as in the demand for full environmental impact assessment before a water resources project is approved Engineering soundness and economic feasibility are no longer sufficient criteria for construction of hydraulic works As a result environmental considerations have become very much a part of hydraulic analyses In response to growing environmental concerns the field of hydraulics has expanded and a new branch called Environmental Hydraulics has emerged The focus of this branch is on hydraulic analyses of those environmental issues that are important for protection restoration and management of environmental quality The motivation for this book grew out of the desire to provide a hydraulic discussion of some of the key environmental issues It is hoped that the book would serve to stimulate others to write more comprehensive texts on this subject of growing importance

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