

ELEMENTARY HYDROLOGY



Vijay P. Singh

Elementary Hydrology

Anasuya Mondal ,Subhankar Dey



Elementary Hydrology:

Elementary Hydrology Vijay P. Singh, 1992 Students are exposed to hydrology for the first time primarily through this course and students taking the course have not had an opportunity to be exposed to hydrologic jargon before And in most cases this course may be the only course the students may have in hydrology in their undergraduate schooling Therefore this hydrology course must be at an elementary level present basic concepts of hydrology and develop a flavor for application of hydrology to the solution of a range of environmental problems It is these considerations that motivated the writing of this book

Elementary Engineering Hydrology M. J. Deodhar, 2008 Elementary Engineering Hydrology is a textbook for undergraduate and diploma students of civil engineering It provides a comprehensive coverage of all the essential aspects of hydrology To make it easy for students to grasp the concepts all important topics have been divided into sub topics lending clarity to the subject matter The text is interspersed with numerous figures and tables and a wide range of solved problems to illustrate the underlying concepts and techniques effectively Simple and comprehensible for beginners in the course this book also contains a host of additional information by way of appendices including India's National Water Policy water resources of India and also a guide to using survey maps These features of the book will make it an invaluable reference book for practicing engineers as well

Hydrogeology and Groundwater Modeling, Second Edition Neven Kresic, 2006-10-26 Coupling the basics of hydrogeology with analytical and numerical modeling methods Hydrogeology and Groundwater Modeling Second Edition provides detailed coverage of both theory and practice Written by a leading hydrogeologist who has consulted for industry and environmental agencies and taught at major universities around the world this unique book fills a gap in the groundwater hydrogeology literature With more than 40 real world examples the book is a source for clear easy to understand and step by step quantitative groundwater evaluation and contaminant fate and transport analysis from basic laboratory determination to complex analytical calculations and computer modeling It provides more than 400 drawings graphs and photographs and a variety of useful tables of all key groundwater parameters as well as lucid straightforward answers to common hydrogeological problems Reflecting nearly ten years of new scholarship since the publication of the bestselling first edition this second edition is wider in focus with added and updated examples figures and problems yet still provides information in the author's trademark user friendly style No other book offers such carefully selected examples and clear elegantly explained solutions The inclusion of step by step solutions to real problems builds a knowledge base for understanding and solving groundwater issues

Fundamentals of Civil Engineering: Principles, Practices, and Applications Anasuya Mondal, Subhankar Dey, 2025-05-08

Introduction to Aquifer Analysis Michael Kasenow, 1997 **The Engineering Handbook** Richard C Dorf, 2018-10-03 First published in 1995 The Engineering Handbook quickly became the definitive engineering reference Although it remains a bestseller the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering computer engineering and

nanotechnology mean that the time has come to bring this standard setting reference up to date New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your personal office or institutional library

Hydrological Systems Modeling - Volume I Lev S. Kuchment ,Vijay P. Singh,2009-06-18 Hydrological Systems Modeling 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 Hydrological Systems Modeling and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Soil and Groundwater Pollution from Agricultural Activities T. V. Ramachandra,2006-01-01 Groundwater is an important source of water for the industrial and agricultural sectors The course book on soil and groundwater pollution from agricultural activities introduces the reader to major agricultural activities in India and their impact on soil and groundwater

MATHEMATICAL MODELS - Volume II Jerzy A. Filar,Jacek B Krawczyk,2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three 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 and NGOs

Water Power Engineering, 2nd Edition Dandekar M.M. & Sharma K.N., The book provides a comprehensive account of an important sector of engineering the hydro power that is renewable and potentially sustainable It covers the entire scope of the subject in a lucid manner starting from the fundamentals of hydrology to various hydraulic and civil structures to electrical and mechanical equipment as required for hydro power projects Many new issues and challenges voiced in the energy sector in general and water power in particular during the last decade have been addressed in the book Recent innovations and developments in some areas like wave power and new technologies in hydraulic structures like the P K weirs

fuse gates stepped spillways CFRD RCC etc find place suitably in the book The book is meant for undergraduate and postgraduate students of civil and electrical engineering and for the professionals interested in the subject NEW IN THE SECOND EDITION Thoroughly rewritten text takes account of the new and growing technology including New types of dams sedimentation of reservoirs rehabilitation of dams Spillway design floods new types of spillways Mathematical models for rainfall runoff analysis including contribution of snowfall Structural components of tidal plants and new types of turbines Wave power exploitation Detailed study on Sardar Sarovar and Tehri projects Fully updated with the latest data up to 2013 Two new chapters on small scale hydro and environmental impact of hydro and multi purpose projects , **Hydrological Cycle - Volume III** Igor Alekseevich Shiklomanov,2009-07-10 The Hydrological Cycle theme 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 Encyclopedias The Hydrological Cycle is a process of constant water exchange or water circulation in the hydrosphere i e in the system of the atmosphere Earth s surface soil cover upper lithosphere to a depth of 2000 m Water in the hydrosphere is liquid solid or gaseous during the hydrological cycle it moves under the effect of heat energy gravitation and capillary forces converting from a liquid to its solid state or gas and back The hydrological cycle is one of the major geophysical processes on the planet providing relative stability of natural conditions and continuous distribution of water between ocean land and atmosphere The content of the Theme on The Hydrological Cycle is organized with state of the art presentations covering several topics Exchanges of Water in the Hydrosphere Hydrosphere Components World Water Balance evaporation Precipitation Surface Water Runoff Groundwater Hydrogeology Glaciers and Their Significance for the Earth Nature which are then expanded into multiple subtopics each as a chapter These four 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 and NGOs **Journal on Data Semantics III** ,2007-05-22 semantic caching data warehousing and semantic data mining spatial temporal multimedia and multimodal semantics semantics in data visualization semantic services for mobile users supporting tools applications of semantic driven approaches These topics are to be understood as speci cally related to semantic issues Contributions submitted to the journal and dealing with semantics of data will be considered even if they are not within the topics in the list While the physical appearance of the journal issues looks like the books from the well known Springer LNCS series the mode of operation is that of a journal Contributions can be freely submitted by authors and are reviewed by the Editorial Board Contributions may also be invited and nevertheless carefully reviewed as in the case for issues that contain extended versions of best papers from major conferences addressing data semantics issues Special issues focusing on a speci c topic are coordinated by guest editors once the proposal for a special issue is accepted by the Editorial Board Finally it is also possible that a journal issue be devoted to a single text **Soil Conservation Service Curve Number (SCS-CN) Methodology** S.K. Mishra,V.P.

Singh,2013-03-14 The Soil Conservation Service SCS curve number CN method is one of the most popular methods for computing the runoff volume from a rainstorm It is popular because it is simple easy to understand and apply and stable and accounts for most of the runoff producing watershed characteristics such as soil type land use hydrologic condition and antecedent moisture condition The SCS CN method was originally developed for its use on small agricultural watersheds and has since been extended and applied to rural forest and urban watersheds Since the inception of the method it has been applied to a wide range of environments In recent years the method has received much attention in the hydrologic literature The SCS CN method was first published in 1956 in Section 4 of the National Engineering Handbook of Soil Conservation Service now called the Natural Resources Conservation Service U S Department of Agriculture The publication has since been revised several times However the contents of the methodology have been nonetheless more or less the same Being an agency methodology the method has not passed through the process of a peer review and is in general accepted in the form it exists Despite several limitations of the method and even questionable credibility at times it has been in continuous use for the simple reason that it works fairly well at the field level Water Resources Systems Planning and Management Sharad

K. Jain,V.P. Singh,2003-09-12 This book is divided into four parts The first part Preliminaries begins by introducing the basic theme of the book It provides an overview of the current status of water resources utilization the likely scenario of future demands and advantages and disadvantages of systems techniques An understanding of how the hydrological data are measured and processed is important before undertaking any analysis The discussion is extended to emerging techniques such as Remote Sensing GIS Artificial Neural Networks and Expert Systems The statistical tools for data analysis including commonly used probability distributions parameter estimation regression and correlation frequency analysis and time series analysis are discussed in a separate chapter Part 2 Decision Making is a bouquet of techniques organized in 4 chapters After discussing optimization and simulation the techniques of economic analysis are covered Recently environmental and social aspects and rehabilitation and resettlement of project affected people have come to occupy a central stage in water resources management and any good book is incomplete unless these topics are adequately covered The concept of rational decision making along with risk reliability and uncertainty aspects form subject matter of a chapter With these analytical tools the practitioner is well equipped to take a rational decision for water resources utilization Part 3 deals with Water Resources Planning and Development This part discusses the concepts of planning the planning process integrated planning public involvement and reservoir sizing The last part focuses on Systems Operation and Management After a resource is developed it is essential to manage it in the best possible way Many dams around the world are losing some storage capacity every year due to sedimentation and therefore the assessment and management of reservoir sedimentation is described in details No analysis of water resources systems is complete without consideration of water quality A river basin is the natural unit in which water occurs The final chapter discusses various issues related to holistic management of a river basin

Groundwater as a Geomorphic Agent R.G. LaFleur, 2020-05-11 This book first published in 1984 has both a geomorphic and a hydrologic message It examines and analyses the role of groundwater in landscapes in a series of articles by authors of diverse backgrounds and experience

Water Resources Management X S. Mambretti, J. Melgarejo, 2019-07-16 Forming the 10th volume from this successful international conference series this book presents the work of scientists practitioners and other experts regarding recent technological and scientific developments associated with the management of surface and sub surface water resources

Methodological Approaches in Physical Geography Firuza Begham Mustafa, 2022-09-01 Geography science aims to observe the dynamics in describing earth s surface as a place and space for humans to carry out their lives starting from simple identification using recording and sketching models then utilizing tools such as maps satellite imagery statistics and Geographic Information Systems GIS In the development of geography science it is appropriate to explain phenomena of the earth in the present context along with the process of developing science and technology using suitable and effective methods Physical geography is the branch of natural science that deals with the study of processes and patterns in the natural environment such as the atmosphere hydrosphere lithosphere and biosphere This book covers the methodology of the study for all aspects of physical geography biosphere hydrosphere lithosphere and atmosphere A comprehensive geography textbook consists of a detailed research methodology for physical geography research including a few selected case studies in Asia The uniqueness of this book is due to the contribution of several professors and subject experts from South East and East Asia with special particular reference to cases studies from a particular region This book covered selected methodological approaches for hydrology climatology and geomorphology including the discovery of the best method for exploring and assessing mysterious physical phenomena using a diversity of methodologies This book explains the principal concept basic method optional method detailed description of each method and the advantages and disadvantages of the various methods The technique of data selection data acquisition method of analysis data interpretation and data analysis techniques with a specific focus on deterministic modeling geography techniques geospatial modeling with Geographic Information System GIS Artificial Intelligence AI Analytic Hierarchy Process AHP and Automated machine techniques and combination of statistical analysis This book attempts to explore different approaches methodological possibilities and challenges in conducting geographical research in physical geography New digital geographic data sources and GIS applications can help researchers to receive clearer concepts and obtain better measurements of the relevant attributes changes in the physical environment Opportunity to critically examine the conceptualization and identification of the field in geographical research and how digital media has not only expanded the scope of what constitutes the field but has redefined the field in itself as well as the practices of observing knowing and analyzing the real world

Advances In Data-based Approaches For Hydrologic Modeling And Forecasting Bellie Sivakumar, Ronny Berndtsson, 2010-08-10 This book comprehensively accounts the advances in data based approaches for hydrologic modeling and forecasting Eight

major and most popular approaches are selected with a chapter for each stochastic methods parameter estimation techniques scaling and fractal methods remote sensing artificial neural networks evolutionary computing wavelets and nonlinear dynamics and chaos methods These approaches are chosen to address a wide range of hydrologic system characteristics processes and the associated problems Each of these eight approaches includes a comprehensive review of the fundamental concepts their applications in hydrology and a discussion on potential future directions

Impounded Water Bodies Modelling and Simulation Salisu Dan'azumi, Supiah Shamsudin, 2014-05-02 This book enhances knowledge on Impounded Water Bodies IWB systems of the interested parties They include academicians scholars scientist researchers engineers undergraduate and postgraduate students Specifically this book is valuable for everyone involved in water hydrology environment civil engineering and other related disciplines This book emphasized modelling and simulation of IWB particularly Reservoir and Detention Pond in relation to the two major hydrological problems Flood and Water Pollution The knowledge presented is useful for hydrological systems real phenomenon replication and prediction This book also provides IWB general overview in terms of the preliminary and state of the art analysis which may trigger the interest for further research and investigations The IWB related factors were integrated to provide the quantitative framework alternative approaches and valuable outcomes that lead to worthy policy establishment This book covers topic related to nutrient phosphorus loadings estimation using the new version of Event Based Stochastic Model in reservoir systems The detention pond systems modelling using Analytical Probabilistic Models APM and the optimization of detention time using Particle Swarm Optimization PSO are elaborated It is hoped that the book provides useful knowledge in pursuit of the IWB sustainable development Dr Supiah Shamsudin is an Associate Professor in Water Resources and Hydrology at the Razak School of Engineering and Advanced Technology Universiti Teknologi Malaysia Kuala Lumpur Malaysia She obtained Bachelor of Science Civil Engineering from University of Miami USA and Master of Science Hydrology and Water resources from University of Nebraska Lincoln USA She later obtained Doctor of Philosophy PhD in Civil Engineering from Universiti Teknologi Malaysia in 2003 Her main specialization is Impounded Water Bodies Engineering and Management Her research interest include intelligent detention pond design watershed and reservoir management under uncertain environment environmental hydrology reservoir eutrophication fuzzy and risk related approaches and multicriteria decision support for water resources systems She had extensive involvements in international peer reviewed indexed journal publications and presented at many national and international conferences Dr Salisu Danazumi is currently a Senior Lecturer in the Department of Civil Engineering Bayero University Kano Nigeria He holds a Bachelors degree Civil Engineering and Masters degree Water Resources and Environmental Engineering from Bayero University Kano Nigeria in 1998 and 2006 respectively He obtained a PhD degree in Hydrology from Universiti Teknologi Malaysia in 2012 His research interest include multi objective optimization of water resource systems using particle swarm optimization risk and uncertainty analysis and surface

water quality modelling He has authored and co authored many papers in international peer reviewed journals and conferences

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