

ENTROPY THEORY and its APPLICATION in ENVIRONMENTAL and WATER ENGINEERING

Vijay P. Singh

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Entropy Theory And Its Application In Environmental And Water Engineering

Juan Carlos Chacon-Hurtado



Entropy Theory And Its Application In Environmental And Water Engineering:

Entropy Theory and its Application in Environmental and Water Engineering Vijay P. Singh, 2013-01-10 Entropy Theory and its Application in Environmental and Water Engineering responds to the need for a book that deals with basic concepts of entropy theory from a hydrologic and water engineering perspective and then for a book that deals with applications of these concepts to a range of water engineering problems The range of applications of entropy is constantly expanding and new areas finding a use for the theory are continually emerging The applications of concepts and techniques vary across different subject areas and this book aims to relate them directly to practical problems of environmental and water engineering The book presents and explains the Principle of Maximum Entropy POME and the Principle of Minimum Cross Entropy POMCE and their applications to different types of probability distributions Spatial and inverse spatial entropy are important for urban planning and are presented with clarity Maximum entropy spectral analysis and minimum cross entropy spectral analysis are powerful techniques for addressing a variety of problems faced by environmental and water scientists and engineers and are described here with illustrative examples Giving a thorough introduction to the use of entropy to measure the unpredictability in environmental and water systems this book will add an essential statistical method to the toolkit of postgraduates researchers and academic hydrologists water resource managers environmental scientists and engineers It will also offer a valuable resource for professionals in the same areas governmental organizations private companies as well as students in earth sciences civil and agricultural engineering and agricultural and rangeland sciences This book Provides a thorough introduction to entropy for beginners and more experienced users Uses numerous examples to illustrate the applications of the theoretical principles Allows the reader to apply entropy theory to the solution of practical problems Assumes minimal existing mathematical knowledge Discusses the theory and its various aspects in both univariate and bivariate cases Covers newly expanding areas including neural networks from an entropy perspective and future developments

Entropy Applications in Environmental and Water Engineering Huijuan Cui, Bellie Sivakumar, Vijay P. Singh, 2019-03-07 Entropy theory has wide applications to a range of problems in the fields of environmental and water engineering including river hydraulic geometry fluvial hydraulics water monitoring network design river flow forecasting floods and droughts river network analysis infiltration soil moisture sediment transport surface water and groundwater quality modeling ecosystems modeling water distribution networks environmental and water resources management and parameter estimation Such applications have used several different entropy formulations such as Shannon Tsallis R nyi Burg Kolmogorov Kapur configurational and relative entropies which can be derived in time space or frequency domains More recently entropy based concepts have been coupled with other theories including copula and wavelets to study various issues associated with environmental and water resources systems Recent studies indicate the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering including establishing and

explaining physical connections between theory and reality The objective of this Special Issue is to provide a platform for compiling important recent and current research on the applications of entropy theory in environmental and water engineering The contributions to this Special Issue have addressed many aspects associated with entropy theory applications and have shown the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering

Water and Environmental Engineering: Entropy Theory and Its Application

Cohen Foster,2023-09-19 Water and environmental engineering is an area of engineering that aims to address environmental issues related to air water and soil It deals with the development and management of water resources designing hydraulic structures such as dams and tunnels water quality engineering water resources engineering outdoor and indoor air quality engineering ocean engineering and hazardous waste management Entropy is referred to as a measure of the disorder or randomness of a system It has been used to solve numerous issues in geographical earth and environmental sciences In the field of water and environment engineering it has numerous applications in areas such as water distribution networks sediment transport river flow forecasting and water monitoring network design This book aims to shed light on some of the unexplored aspects of entropy and its applications in water and environmental engineering It will also provide interesting topics for research which interested readers can take up A number of latest studies have been included to keep the readers up to date with the global concepts in this area of study

Entropy Applications in Environmental and Water Engineering

Vijay P. Singh,Huijuan Cui,Bellie Sivakumar,2019 Entropy theory has wide applications to a range of problems in the fields of environmental and water engineering including river hydraulic geometry fluvial hydraulics water monitoring network design river flow forecasting floods and droughts river network analysis infiltration soil moisture sediment transport surface water and groundwater quality modeling ecosystems modeling water distribution networks environmental and water resources management and parameter estimation Such applications have used several different entropy formulations such as Shannon Tsallis R nyi Burg Kolmogorov Kapur configurational and relative entropies which can be derived in time space or frequency domains More recently entropy based concepts have been coupled with other theories including copula and wavelets to study various issues associated with environmental and water resources systems Recent studies indicate the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering including establishing and explaining physical connections between theory and reality The objective of this Special Issue is to provide a platform for compiling important recent and current research on the applications of entropy theory in environmental and water engineering The contributions to this Special Issue have addressed many aspects associated with entropy theory applications and have shown the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering

Climate Change in Sustainable Water Resources Management

Omid Bozorg-Haddad,2022-06-29 This book provides a comprehensive approach to all aspects of water related subjects affected by climate change that expand

readers attitudes toward future of the management strategies and improve management plans It summarizes climate change scenarios models downscaling methods and how to select the appropriate method It also introduces practical steps in assessing climate change impacts on water issues through introducing hydrological models and climate change data applications in hydrologic analysis The book caters to specialist readers who are interested in analyzing climate change effects on water resources and related issues can gain a profound understanding of the practical concepts and step by step analysis which is enriched with real case studies all around the world Moreover readers will be familiar with potential mitigation and adaptation measures in sustainable water engineering considering the results of hydrologic modeling

Chaos in Hydrology Bellie Sivakumar, 2016-11-16 This authoritative book presents a comprehensive account of the essential roles of nonlinear dynamic and chaos theories in understanding modeling and forecasting hydrologic systems This is done through a systematic presentation of 1 information on the salient characteristics of hydrologic systems and on the existing theories for their modeling 2 the fundamentals of nonlinear dynamic and chaos theories methods for chaos identification and prediction and associated issues 3 a review of the applications of chaos theory in hydrology and 4 the scope and potential directions for the future This book bridges the divide between the deterministic and the stochastic schools in hydrology and is well suited as a textbook for hydrology courses

Entropy Applications in Environmental and Water Engineering, 2019 Entropy theory has wide applications to a range of problems in the fields of environmental and water engineering including river hydraulic geometry fluvial hydraulics water monitoring network design river flow forecasting floods and droughts river network analysis infiltration soil moisture sediment transport surface water and groundwater quality modeling ecosystems modeling water distribution networks environmental and water resources management and parameter estimation Such applications have used several different entropy formulations such as Shannon Tsallis Reacutenyi Burg Kolmogorov Kapur configurational and relative entropies which can be derived in time space or frequency domains More recently entropy based concepts have been coupled with other theories including copula and wavelets to study various issues associated with environmental and water resources systems Recent studies indicate the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering including establishing and explaining physical connections between theory and reality The objective of this Special Issue is to provide a platform for compiling important recent and current research on the applications of entropy theory in environmental and water engineering The contributions to this Special Issue have addressed many aspects associated with entropy theory applications and have shown the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering

Water Resources Systems Planning and Management Sharad K. Jain, V.P. Singh, 2023-11-25 Water Resources Systems Planning and Management Second Edition Volume 51 presents new and updated material including case studies examples and important updates on topics such as climate change and integrated water resources

management Authored by two renowned experts in the field of water resources this text provides an overview of the current status of water resources utilization the likely scenario of future demands simulation and techniques of economic analysis concepts of planning the planning process integrated planning public involvement reservoir sizing and finally systems operation and management This book presents a comprehensive overview of the field that is relevant for students professors scholars researchers and consultants in the fields of Water Resources Civil Engineering Environmental Engineering and Hydrology Provides an overview of the current status of water resources utilization the likely scenario of future demands and advantages and disadvantages of systems techniques Includes numerous examples and real world case studies Discusses the concepts of planning the planning process integrated planning public involvement and reservoir sizing New to this edition Thoroughly updated content with an improved presentation new figures examples and case studies Includes comprehensive new coverage focusing on the impact of climate change and environmental flows All chapters are updated with three brand new chapters Environmental flows and their assessment Climate change and its impacts on water management Integrated river basin planning and management Integrated Water Resources Management Water Resources Management and Sustainability Ahmed Sefelnasr, Mohsen Sherif, Vijay P. Singh, 2025-03-03 The first section deals with hydrological topics problems and principles In this chapter detailed studies related to hydrological monitoring are carried out Overland flow velocity estimation wireless sensor networks and application of deep learning techniques are discussed These topics are helpful to estimate overland flow velocities using tracer techniques based on the infrared thermography and fluorescent properties of quinine which can help in the visualization of shallow flows evaluation of high resolution rainfall measurement and extracting water bodies from high resolution drones and satellite imagery using an integrated deep learning method The chapter critically discusses the advantage of thermal tracers utilizing the wireless sensor networks for the accurate capture of spatially varied precipitation patterns and evaluation and quality assessment of water extraction using deep learning techniques It highlights recommendations and limitations that should be taken into account for hydrological monitoring Moreover this section discusses rainfall and floods and their related attributes in arid regions including flood mitigation and risk assessment Flood mapping and assessment recent trends of floods and their impacts are comprehensively discussed The outcomes are for useful hydrologic infrastructure design under changing climate This part also highlights the importance of applying new methodologies considering the statements and questions asked by scientists and researchers The second section addresses droughts and their analysis and assessment Drought events are great challenges faced by nature in the wake of climate change This part will help stakeholders gather useful information and develop a deep understanding of these salient features of climate change s impacts It deals with the various studies conducted in the field of drought and flash drought Flash drought is a composition of various factors leading to intense drought conditions So limitations and recommendations to mitigate drought events are discussed in detail The third section discusses groundwater as an important

component in the water budget in arid regions Threats recharges quality and management options of this resource are also discussed Beginning with a perspective on the management of this resource the papers go on to discuss rational decision making challenges use of information technology integrated management and modeling for groundwater resources management Section four deals with water quality This part discusses modern techniques for water quality assessment and treatment procedures The industrial and commercial area generates a large amount of waste which is indiscriminately disposed of leading to several environmental issues This section provides a detailed analysis on water quality hydrogeochemistry impact and benefits of treating municipal wastewater to tertiary quality groundwater table and quality deterioration Recommendations for adequate planning design construction and location of open dumpsites to ameliorate groundwater pollution and the closing of trace metal boreholes to avoid possible health implications or outbreaks that are likely occurring or are expected to occur Section five discusses water resources management This topic has been receiving a fair amount of attention in many arid countries of the world and more specifically in the Gulf region This section addresses regulations for conservation reuse and security The limited freshwater resources must be developed managed and used as efficiently as possible Decision support systems for water resources planning management and water rights analyses and control have been discussed as well

Entropy Theory in Hydrologic Science and Engineering Vijay P. Singh, 2014-09-22 A THOROUGH INTRODUCTION TO ENTROPY THEORY AND ITS APPLICATIONS IN HYDROLOGIC SCIENCE AND ENGINEERING This comprehensive volume addresses basic concepts of entropy theory from a hydrologic engineering perspective The application of these concepts to a wide range of hydrologic engineering problems is discussed in detail The book is divided into sections preliminaries rainfall and evapotranspiration subsurface flow surface flow and environmental considerations Helpful equations solutions tables and diagrams are included throughout this practical resource Entropy Theory in Hydrologic Science and Engineering covers Introduction to entropy theory Maximum entropy production principle Performance measures Morphological analysis Evaluation and design of sampling and measurement networks Precipitation variability Rainfall frequency distributions Evaluation of precipitation forecasting schemes Assessment of potential water resources availability Evaporation Infiltration Soil moisture Groundwater flow Rainfall runoff modeling Streamflow simulation Hydrologic frequency analysis Streamflow forecasting River flow regime classification Sediment yield Eco index

Optimisation of Dynamic Heterogeneous Rainfall Sensor Networks in the Context of Citizen Observatories

Juan Carlos Chacon-Hurtado, 2019-11-21 Precipitation drives the dynamics of flows and storages in water systems making its monitoring essential for water management Conventionally precipitation is monitored using in situ and remote sensors In situ sensors are arranged in networks which are usually sparse providing continuous observations for long periods at fixed points in space and due to the high costs of such networks they are often sub optimal To increase the efficiency of the monitoring networks we explore the use of sensors that can relocate as rainfall events develop dynamic sensors as well as

increasing the number of sensors involving volunteers citizens This research focusses on the development of an approach for merging heterogeneous observations in non stationary precipitation fields exploring the interactions between different definitions of optimality for the design of sensor networks as well as development of algorithms for the optimal scheduling of dynamic sensors This study was carried out in three different case studies including Bacchiglione River Italy Don River U K and Brue Catchment U K The results of this study indicate that optimal use of dynamic sensors may be useful for monitoring precipitation to support water management and flow forecasting

Handbook of Applied Hydrology, Second Edition Vijay P. Singh, 2016-03-07 Fully Updated Hydrology Principles Methods and Applications Thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who's who of international hydrology experts Compiled by a colleague of the late Dr Chow Chow's Handbook of Applied Hydrology Second Edition covers scientific and engineering fundamentals and presents all new methods processes and technologies Complete details are provided for the full range of ecosystems and models Advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security Chow's Handbook of Applied Hydrology Second Edition covers The Fundamentals of Hydrology Data Collection and Processing Hydrology Methods Hydrologic Processes and Modeling Sediment and Pollutant Transport Hydrometeorologic and Hydrologic Extremes Systems Hydrology Hydrology of Large River and Lake Basins Applications and Design The Future of Hydrology

Introduction to Tsallis Entropy Theory in Water Engineering Vijay P. Singh, 2016-01-05 Focuses On an Emerging Field in Water Engineering A broad treatment of the Tsallis entropy theory presented from a water resources engineering point of view Introduction to Tsallis Entropy Theory in Water Engineering fills a growing need for material on this theory and its relevant applications in the area of water engineering This self contained

ADVANCES IN MECHANICS AND MATERIALS Sanjaya Kumar Patro, Amar Nath Nayak, Ramakanta Panigrahi, 2016-12-09 Veer Surendra Sai University of Technology VSSUT Burla is one among the foremost universities of India in the field of higher education basic and applied research The foundation of this iconic college was laid in 1956 to cater the maintenance and upkeep of the mighty Hirakud Dam world's longest earth dam at Burla The university now has sixteen academic departments in various disciplines in engineering and sciences The International Conference on Advances in Mechanics and Materials ICRAMM 2016 was organized at the Veer Surendra Sai University of Technology Burla Odisha during 17-18 December 2016 Over the years tremendous progress has been made in the fields related to mechanics and materials due to rapid advancements in analytical experimental and computational facilities The outcome has immensely benefited the industries research and academic organizations in numerous ways The International Conference on Recent Advances in Mechanics and Materials ICRAMM 2016 will provide a common platform for academicians engineers scientists and technologists to come together and discuss the progress made on various aspects of mechanics and materials Realizing the importance of recent developments in the areas of recent advances in mechanics and materials the conference ICRAMM

2016 focuses on following major themes Computational mechanics Experimental mechanics Fluid mechanics Geomechanics Structural mechanics Continuum mechanics Coupled field problems Structural and Soil Dynamics Vibration Control Structural Health Monitoring Rehabilitation and Retrofitting of structures Composite Materials Cement Concrete Composites and Sustainable construction materials The papers included in this conference proceeding reflect in general the need for emerging technologies and growing interest in structural mechanics and materials to tailor it to meet the requirements for the varying application

Advances in Streamflow Forecasting Priyanka Sharma,Deepesh Machiwal,2021-06-20

Advances in Streamflow Forecasting From Traditional to Modern Approaches covers the three major data driven approaches of streamflow forecasting including traditional approach of statistical and stochastic time series modelling with their recent developments stand alone data driven approach such as artificial intelligence techniques and modern hybridized approach where data driven models are combined with preprocessing methods to improve the forecast accuracy of streamflows and to reduce the forecast uncertainties This book starts by providing the background information overview and advances made in streamflow forecasting The overview portrays the progress made in the field of streamflow forecasting over the decades Thereafter chapters describe theoretical methodology of the different data driven tools and techniques used for streamflow forecasting along with case studies from different parts of the world Each chapter provides a flowchart explaining step by step methodology followed in applying the data driven approach in streamflow forecasting This book addresses challenges in forecasting streamflows by abridging the gaps between theory and practice through amalgamation of theoretical descriptions of the data driven techniques and systematic demonstration of procedures used in applying the techniques Language of this book is kept simple to make the readers understand easily about different techniques and make them capable enough to straightforward replicate the approach in other areas of their interest This book will be vital for hydrologists when optimizing the water resources system and to mitigate the impact of destructive natural disasters such as floods and droughts by implementing long term planning structural and nonstructural measures and short term emergency warning Moreover this book will guide the readers in choosing an appropriate technique for streamflow forecasting depending upon the given set of conditions Contributions from renowned researchers experts of the subject from all over the world to provide the most authoritative outlook on streamflow forecasting Provides an excellent overview and advances made in streamflow forecasting over the past more than five decades and covers both traditional and modern data driven approaches in streamflow forecasting Includes case studies along with detailed flowcharts demonstrating a systematic application of different data driven models in streamflow forecasting which helps understand the step by step procedures

Sustainable Development of Urban Environment and Building Material Hui Li,Yan Feng Liu,Ming Guo,Rui Zhang,Jing Du,2011-10-24 Selected peer reviewed papers from the 4th International Conference on Technology of Architecture and Structure ICTAS 2011 September 22 24 2011 Xi an China

Entropy and Energy Dissipation in Water Resources V.P. Singh,M. Fiorentino,2012-12-06

Since the landmark contributions of C E Shannon in 1948 and those of E T Jaynes about a decade later applications of the concept of entropy and the principle of maximum entropy have proliferated in science and engineering Recent years have witnessed a broad range of new and exciting developments in hydrology and water resources using the entropy concept These have encompassed innovative methods for hydrologic network design transfer of information flow forecasting reliability assessment for water distribution systems parameter estimation derivation of probability distributions drainage network analysis sediment yield modeling and pollutant loading bridge scour analysis construction of velocity profiles comparative evaluation of hydrologic models and so on Some of these methods hold great promise for advancement of engineering practice permitting rational alternatives to conventional approaches On the other hand the concepts of energy and energy dissipation are being increasingly applied to a wide spectrum of problems in environmental and water resources Both entropy and energy dissipation have their origin in thermodynamics and are related concepts Yet many of the developments using entropy seem to be based entirely on statistical interpretation and have seemingly little physical content For example most of the entropy related developments and applications in water resources have been based on the information theoretic interpretation of entropy We believe if the power of the entropy concept is to be fully realized then its physical basis has to be established

Water S.A. ,2000 **Environmental Protection and Resources Exploitation** Zi Li Liu,Xin Fa Dong,Zhao Tie Liu,Qi Hai Liu,2013-09-10 Selected peer reviewed papers from the 2013 International Conference on Advances in Energy and Environmental Science ICAEES 2013 July 30 31 2013 Guangzhou China

Methodology in Hydrology Liliang Ren,2007

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