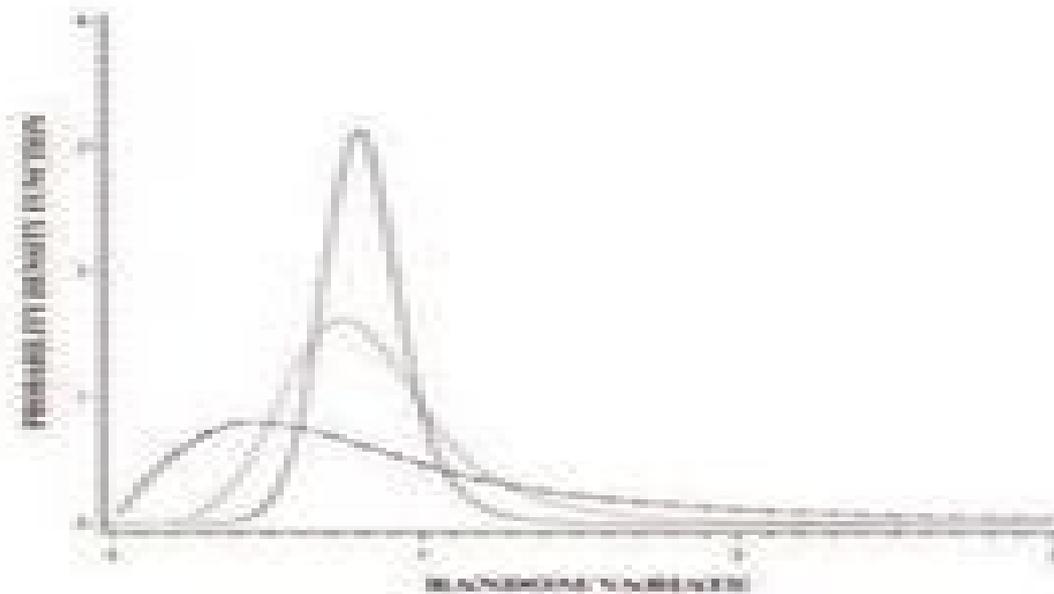


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ENTROPY-BASED PARAMETER ESTIMATION IN HYDROLOGY

by
Vijay P. Singh



Entropy Based Parameter Estimation In Hydrology

Vijay P. Singh, Lan Zhang



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Entropy-Based Parameter Estimation in Hydrology V.P. Singh, 2013-04-17 Since the pioneering work of Shannon in the late 1940s 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

Entropy-Based Parameter Estimation in Hydrology Vijay Singh, 2014-03-14 Since the pioneering work of Shannon in the late 1940s 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

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 Rnyi 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

Metaheuristics in Water, Geotechnical and Transport Engineering Xin-She Yang, Amir Hossein Gandomi, Siamak Talatahari, Amir Hossein Alavi, 2012-09 Due to an ever decreasing supply in raw materials and stringent constraints on conventional energy sources demand for lightweight efficient and low cost structures has become crucially important in modern engineering design This requires engineers to search for optimal and robust design options to address design problems that are often large in scale and highly nonlinear making finding solutions challenging In the past two decades metaheuristic algorithms have shown promising power efficiency and versatility in solving these difficult optimization problems This book examines the latest developments of metaheuristics and their applications in water geotechnical and transport engineering offering practical case studies as examples to demonstrate real world applications Topics cover a range of areas within engineering including reviews of optimization algorithms artificial intelligence cuckoo search genetic programming neural networks multivariate adaptive regression swarm intelligence genetic algorithms ant colony optimization evolutionary multiobjective optimization with diverse applications in engineering such as behavior of materials geotechnical design flood control water distribution and signal networks This book can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristics optimization in civil engineering and computational intelligence Provides detailed descriptions of all major metaheuristic algorithms with a focus on practical implementation Develops new hybrid and advanced methods suitable for

civil engineering problems at all levels Appropriate for researchers and advanced students to help to develop their work

Generalized Frequency Distributions for Environmental and Water Engineering Vijay P. Singh, Lan Zhang, 2022-04-07 A multitude of processes in hydrology and environmental engineering are either random or entail random components which are characterized by random variables These variables are described by frequency distributions This book provides an overview of different systems of frequency distributions their properties and applications to the fields of water resources and environmental engineering A variety of systems are covered including the Pearson system Burr system and systems commonly applied in economics such as the D Addario Dagum Stoppa and Esteban systems The latter chapters focus on the Singh system and the frequency distributions deduced from Bessel functions maximum entropy theory and the transformations of random variables The final chapter introduces the genetic theory of frequency distributions Using real world data this book provides a valuable reference for researchers graduate students and professionals interested in frequency analysis

Handbook of Hydrosystem Restoration Saeid Eslamian, Faezeh Eslamian, 2025-08-29 Hydrosystem Restoration Handbook Groundwater Natural Recharge GNR Second Edition covers the essentials of GNR with a range of global case studies that encompass the most up to date management approaches in streams The book provides comprehensive methods for sustainable water supply through debris removal along with conservation practices to assist researchers and graduate students specializing in this field Covers traditional and novel techniques for efficient water resources management to overcome the water scarcity problem Includes the latest methods for Sustainable and Integrated Water Resources Management Contains case studies from Africa Australia China Eurasia India MENA Countries Canada and North America that offer deep analysis of techniques of flow restoration and groundwater artificial recharge

Water Resources Planning and Management Vijay P. Singh, Il Won Seo, Jung H. Sonu, 1999

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

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

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 Rnyi 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

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Metaheuristic Applications in Structures and Infrastructures Xin-She Yang, Siamak Talatahari, Amir Hossein Alavi, 2013-01-31 Due to an ever decreasing supply in raw materials and stringent constraints on conventional energy sources demand for lightweight efficient and low cost structures has become crucially important in modern engineering design This requires engineers to search for optimal and robust design options to address design problems that are commonly large in scale and highly nonlinear making finding solutions challenging In the past two decades metaheuristic algorithms have shown promising power efficiency and versatility in solving these difficult optimization problems This book examines the latest developments of metaheuristics and their applications in structural engineering construction engineering and earthquake engineering offering practical case studies as examples to demonstrate real world applications Topics cover a range of areas within engineering including big bang big crunch approach genetic algorithms genetic programming harmony search swarm intelligence and some other metaheuristic methods Case studies include structural identification vibration analysis and control topology optimization transport infrastructure design design of reinforced concrete performance based design of structures and smart pavement management With its wide range of everyday problems and solutions Metaheuristic Applications in Structures and Infrastructures can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristics optimization in civil engineering and computational intelligence Review of the latest development of metaheuristics in engineering Detailed algorithm descriptions with focus on practical implementation Uses practical case studies as examples and applications

Handbook of HydroInformatics Saeid Eslamian, Faezeh Eslamian, 2022-11-30 Classic Soft Computing Techniques is the first volume of the three in the Handbook of HydroInformatics series Through this comprehensive 34 chapters work the contributors explore the difference between traditional computing also known as hard computing and soft computing which is based on the importance given to issues like precision certainty and rigor The chapters go on to define fundamentally classic soft computing techniques such as Artificial Neural Network Fuzzy Logic Genetic Algorithm Supporting Vector Machine Ant Colony Based Simulation Bat Algorithm Decision Tree Algorithm Firefly Algorithm Fish Habitat Analysis Game Theory Hybrid Cuckoo Harmony Search Algorithm Honey Bee Mating Optimization Imperialist Competitive Algorithm Relevance Vector Machine etc It is a fully comprehensive handbook providing all the information needed around classic soft computing techniques This volume is a true interdisciplinary work and the audience includes postgraduates and early career researchers interested in Computer Science Mathematical Science Applied Science Earth and Geoscience Geography Civil Engineering Engineering Water Science Atmospheric Science Social Science Environment Science Natural Resources and Chemical Engineering Key insights from global contributors in the fields of data management research climate change and

resilience insufficient data problem etc Offers applied examples and case studies in each chapter providing the reader with real world scenarios for comparison Introduces classic soft computing techniques necessary for a range of disciplines

Acta geophysica Polonica ,2002 **Methodology in Hydrology** Liliang Ren,2007 Turkish Journal of Agriculture & Forestry ,1994 **Water Encyclopedia, Oceanography; Meteorology; Physics and Chemistry; Water Law; and Water History, Art, and Culture** Jay H. Lehr,2005-06 Volume 1 outlines water supply infrastructure The requirements for supplying water to a home a city or a factory can be very different Experts in these fields explain the nuances of the details involved in maintaining adequate quantity and quality for these different consumers Waste water management can be of even greater concern yet its management can follow similar paths when compared to sophisticated water supply treatment Both the physics and chemistry of these fields are fully covered Volume 2 deals with the big picture of regional water supplies how they become contaminated how they can be protected and how they can best serve the surrounding populations and industries Significant focus is placed upon the natural chemistry of available water supplies and its biological impacts Case studies from regions around the world offer an excellent picture of the world s water resources American Book Publishing Record ,1999 **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,2003 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 **Hydrological Science and Technology Short Papers** ,1985 **Stochastic and Statistical Methods in Hydrology and Environmental Engineering** Keith W. Hipel,1994

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