STOCHASTIC METHODS IN HYDROLOGY

Rain, Landforms and Floods

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Stochastic Methods In Hydrology

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Stochastic Methods In Hydrology:

Stochastic Methods in Hydrology Ole E. Barndorff-Nielsen,1998 This book communicates some contemporary mathematical and statistical developments in river basin hydrology as they pertain to space time rainfall spatial landform and network structures and their role in understanding averages and fluctuations in the hydrologic water balance of river basins While many of the mathematical and statistical nations have quite classical mathematical roots the river basin data structure has led to many variations on the problems and theory   Stochastic Hydrology and its Use in Water Resources Systems Simulation and Optimization J.B. Marco,R. Harboe,J.D. Salas,2012-12-06 Stochastic hydrology is an essential base of water resources systems analysis due to the inherent randomness of the input and consequently of the results These results have to be incorporated in a decision making process regarding the planning and management of water systems It is through this application that stochastic hydrology finds its true meaning otherwise it becomes merely an academic exercise A set of well known specialists from both stochastic hydrology and water resources systems present a synthesis of the actual knowledge currently used in real world planning and management The book is intended for both practitioners and researchers who are willing to apply advanced approaches for incorporating hydrological randomness and uncertainty into the simulation and optimization of water resources systems abstract Stochastic hydrology is a basic tool for water resources systems analysis due to inherent randomness of the hydrologic cycle This book contains actual techniques in use for water resources planning and management incorporating randomness into the decision making process Optimization and simulation the classical systems analysis technologies are revisited under up to date statistical hydrology findings backed by real world applications **Stochastic and Statistical Methods in Hydrology and Environmental Engineering** Keith W. Hipel,2012-12-06 Objectives The current global environmental crisis has reinforced the need for developing flexible mathematical models to obtain a better understanding of environmental problems so that effective remedial action can be taken Because natural phenomena occurring in hydrology and environmental engineering usually behave in random and probabilistic fashions stochastic and statistical models have major roles to play in the protection and restoration of our natural environment Consequently the main objective of this edited volume is to present some of the most up to date and promising approaches to stochastic and statistical modelling especially with respect to groundwater and surface water applications Contents As shown in the Table of Contents the book is subdivided into the following main parts GENERAL ISSUES PART I PART II GROUNDWATER PART III SURFACE WATER PART IV STOCHASTIC OPTIMIZATION PART V MOMENT ANALYSIS PART VI OTHER TOPICS Part I raises some thought provoking issues about probabilistic modelling of hydro logical and environmental systems The first two papers in Part I are in fact keynote papers delivered at an international environmetrics conference held at the University of Waterloo in June 1993 in honour of Professor T E Unny In his keynote pa per Dr S J Burges of the University of Washington places into perspective the historical and future roles of stochastic modelling in hydrology and

environmental engineering Additionally Dr Burges stresses the need for developing a sound scien tific basis for the field of hydrology Professor P E   <u>Stochastic Processes in Hydrology</u> Vujica M. Yevjevich,1972   *Stochastic and Statistical Methods in Hydrology and Environmental Engineering* Keith W. Hipel,2013-04-17 International experts from around the globe present a rich variety of intriguing developments in time series analysis in hydrology and environmental engineering Climatic change is of great concern to everyone and significant contributions to this challenging research topic are put forward by internationally renowned authors A range of interesting applications in hydrological forecasting are given for case studies in reservoir operation in North America Asia and South America Additionally progress in entropy research is described and entropy concepts are applied to various water resource systems problems Neural networks are employed for forecasting runoff and water demand Moreover graphical nonparametric and parametric trend analyses methods are compared and applied to water quality time series Other topics covered in this landmark volume include spatial analyses spectral analyses and different methods for stream flow modelling Audience The book constitutes an invaluable resource for researchers teachers students and practitioners who wish to be at the forefront of time series analysis in the environmental sciences   **Stochastic Subsurface Hydrology** L. W. Gelhar,1993 This volume describes new stochastic subsurface hydrology techniques and results and examines the basic stochastic methods used to treat flow and contaminant transport in naturally heterogeneous permeable earth materials   **STOCHASTIC and Statistical Methods in Hydrology and Environmental Engineering** Keith W. Hipel,1993   **Stochastic methods in hydrology** Ole E. Barndorff-Nielsen,1998   *Stochastic and Statistical Methods in Hydrology and Environmental Engineering* ,1994   **Stochastic Hydrology (HB)** Dr. P. Jaya Rami Reddy,1997   *Stochastic and Statistical Methods in Hydrology and Environmental Engineering* ,1994   **Advances in the Statistical Sciences: Stochastic Hydrology** I.B. MacNeill,G. Umphrey,2012-12-06 On May 27 31 1985 a series of symposia was held at The University of Western Ontario London Canada to celebrate the 70th birthday of Pro fessor V M Joshi These symposia were chosen to reflect Professor Joshi s research interests as well as areas of expertise in statistical science among faculty in the Departments of Statistical and Actuarial Sciences Economics Epidemiology and Biostatistics and Philosophy From these symposia the six volumes which comprise the Joshi Festschrift have arisen The 117 articles in this work reflect the broad interests and high quality of research of those who attended our conference We would like to thank alI of the contributors for their superb cooperation in helping us to complete this project Our deepest gratitude must go to the three people who have spent so much of their time in the past year typing these volumes Jackie BeU Lise Constant and Sandy Tamowski This work has been printed from camera ready copy produced by our Vax 785 computer and QMS Lasergraphix printers using the text processing software TEX At the initiation of this project we were neophytes in the use of this system Thank you J ackie Lise and Sandy for having the persistence and dedication needed to complete this undertaking   **Stochastic and Statistical Methods in Hydrology and Environmental Engineering** Keith W.

Hipel,Liping Fang,2013-06-29 In this landmark set of papers experts from around the world present the latest and most promising approaches to both the theory and practice of effective environmental management To achieve sustainable development organizations and individual citizens must comply with environmental laws and regulations Accordingly a major contribution of this book is the presentation of original techniques for designing effective environmental policies regulations inspection precedures and monitoring systems Interesting methods for modelling risk and decision making problems are discussed from an environmental management perspective Moreover knowledge based techniques for handling environmental problems are also investigated Finally the last main part of the book describes optimal approaches to reservoir operation and control that take into account appropriate multiple objectives Audience The book is of direct interest to researchers teachers students and practitioners concerned with the latest developments in environmental management and sustainable development **Stochastic and Statistical Methods in Hydrology and Environmental Engineering** Keith W. Hipel,2010-12-15 Within this landmark collection of papers highly respected scientists and engineers from around the world present some of the latest research results in extreme value analyses for floods and droughts Two approaches that are commonly employed in flood frequency analyses are the maximum annual flood and partial duration series or peak over threshold procedures Recent theoretical advances as well as illustrative applications are described in detail for each of these approaches Additionally droughts and storms are systematically studied using appropriate probabilistic models A major part of the volume is devoted to frequency analyses and fitting extreme value distributions to hydrological data Other thought provoking topics include regionalization techniques distributed models entropy and fractal analysis Audience The book is of interest to researchers teachers students and practitioners who wish to place themselves at the leading edge of flood frequency and drought analyses **Statistical Methods in Hydrology** Canada. Inland Waters Branch,1967 **Mathematical Models in Hydrology** R. T. Clarke,1973 Definitions model classification some model uses The generation of synthesis sequences of a single hydrological variable The generation of synthetic sequences of several hydrological variables Forecasting monthly streamflow The estimation of floods with given return period The use of a stochastic conceptual model to convert long rainfall records into discharge Computer programs Random Functions and Hydrology Rafael L. Bras,Ignacio Rodríguez-Iturbe,1993-01-01 Advanced level view of the tools of random processes and field theory as applied to the analysis and synthesis of hydrologic phenomena Topics include time series analysis optimal estimation optimal interpolation Kriging frequency domain analysis of signals and linear systems theory Techniques and examples chosen to illustrate the latest advances in hydrologic signal analysis Useable as graduate level text in water resource systems stochastic hydrology random processes and signal analysis 202 illustrations **Stochastic and Statistical Methods in Hydrology and Environmental Engineering** Keith W. Hipel,A. Ian McLeod,U.S. Panu,Vijay Singh,Liping Fang,1994-08-31 Volume 1 edited by Keith W Hipel In this landmark collection of papers highly respected

scientists and engineers from around the world present the latest research results in extreme value analyses for floods and droughts Two approaches that are commonly employed in flood frequency analyses are the maximum annual flood and partial duration series or peak over threshold procedures Recent theoretical advances as well as illustrative applications are described in detail for each of these approaches Additionally droughts and storms are systematically studied using appropriate probabilistic models A major part of the volume is devoted to frequency analyses and fitting extreme value distributions to hydrological data Other thought provoking topics include regionalization techniques distributed models entropy and fractal analysis Volume 1 is of interest to researchers teachers students and practitioners who wish to place themselves at the leading edge of flood frequency and drought analyses Volume 2 edited by Keith W Hipel World renowned scientists present valuable contributions to stochastic and statistical modelling of groundwater and surface water systems The philosophy of probabilistic modelling in the hydrological sciences is put into proper perspective and the importance of stochastic differential equations in the environmental sciences is explained and illustrated The new research ideas put forward in groundwater modelling will assist decision makers in tackling challenging problems such as controlling pollution of underground aquifers and obtaining adequate water supplies Additionally different types of stochastic models are used in modelling a range of interesting surface water problems Other topics covered in this landmark volume include stochastic optimization moment analysis carbon dioxide modelling and rainfall prediction Volume 2 is of interest to researchers teachers students and practitioners who wish to be at the leading edge of stochastic and statistical modelling in the environmental sciences Volume 3 edited by Keith W Hipel A Ian McLeod U S Panu Vijay P Singh International experts from around the globe present a rich variety of intriguing developments in time series analysis in hydrology and environmental engineering Climatic change is of great concern to everyone and significant contributions to this challenging research topic are put forward by internationally renowned authors A range of interesting applications in hydrological forecasting are given for case studies in reservoir operation in North America Asia and South America Additionally progress in entropy research is described and entropy concepts are applied to various water resource systems problems Neural networks are employed for forecasting runoff and water demand Moreover graphical nonparametric and parametric trend analyses methods are compared and applied to water quality time series Other topics covered in this landmark volume include spatial analyses spectral analyses and different methods for stream flow modelling Volume 3 constitutes an invaluable resource for researchers teachers students and practitioners who wish to be at the forefront of time series analysis in the environmental sciences Volume 4 edited by Keith W Hipel Liping Fang In this landmark set of papers experts from around the world present the latest and most promising approaches to both the theory and practice of effective environmental management To achieve sustainable development organizations and individual citizens must comply with environmental laws and regulations Accordingly a major contribution of this book is the presentation of original techniques for designing effective environmental

policies regulations inspection procedures and monitoring systems Interesting methods for modelling risk and decision making problems are discussed from an environmental management perspective Moreover knowledge based techniques for handling environmental problems are also investigated Finally the last main part of the book describes optimal approaches to reservoir operation and control that take into account appropriate multiple objectives Volume 4 is of direct interest to researchers teachers students and practitioners concerned with the latest developments in environmental management and sustainable development   *Mathematical Models in Hydrology* ,1974   **STOCHASTIC METHODS IN HYDRAULICS AND HYDROLOGY OF STREAMFLOW.** Chao-Lin Chiu,1972

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