

Kevin Sene



Hydro- meteorology

Forecasting and Applications

 Springer

Hydrometeorology Forecasting And Applications

Vlado Spiridonov, Mladjen Ćurić



Hydrometeorology Forecasting And Applications:

Hydrometeorology Kevin Sene, 2024-07-05 An award winning text introducing the latest operational hydrometeorological forecasting and warning techniques for flood drought reservoir hydropower irrigation water supply and water pollution applications **Hydrometeorology Forecasting and Applications** is the latest edition of this award winning book intended for practicing engineers and scientists It also provides useful background for undergraduate and postgraduate courses in engineering earth sciences environmental sciences geography meteorology and hydrology Operational examples include applications from the USA UK the Netherlands Bangladesh and Nepal Throughout there is a focus on end to end warning systems forecast uncertainty and risk based and impact based approaches Hydrological forecasting topics include rainfall runoff flow routing data assimilation forecast verification and ensemble techniques There are also updates to the text on weather radar satellite precipitation estimates hydrometry low cost monitoring numerical weather prediction demand forecasting and dissemination of warnings including the role of social media and citizen science Applications include national and community based flood warning systems flash flood guidance famine and drought early warning systems reservoir operations and surface water debris flow ice jam bathing water and harmful algal bloom alerts Seasonal forecasting land surface and global hydrological models are now discussed in more detail including the opportunities from Big Data and artificial intelligence and a new chapter discusses approaches to predicting the hydrological impacts of climate change The extensive sets of references have been revised and updated There are few books that have ever attempted to discuss all aspects of hydrometeorology in one volume This one does so From a review of the 1st edition in the Bulletin of the American Meteorological Society Kevin Sene FRGS FRMetS CEng MICE is a scientist and writer with wide experience in flood risk management water resources and hydrometeorology His previous publications include books on flood warning forecasting and emergency response and flash flood forecasting and warning Springer 2008 2013 **Hydrometeorology** Kevin Sene, 2009-12-12 This book describes recent developments in hydrometeorological forecasting techniques for a range of timescales from short term to seasonal and longer terms It conveniently brings together both meteorological and hydrological aspects in a single volume **Hydrometeorology** Kevin Sene, 2015-12-09 This second edition explores some of the latest techniques used to provide forecasts for a wide range of water related applications in areas such as floods droughts water resources and environmental impacts The practical uses can range from decisions on whether to issue a flood warning through to providing longer term advice such as on when to plant and harvest crops or how to operate reservoirs for water supply and hydropower schemes It provides an introduction to the topic for practitioners and researchers and useful background for courses in areas such as civil engineering water resources meteorology and hydrology As in the first edition the first section considers topics such as monitoring and forecasting techniques demand forecasting and how forecasts are interpreted when issuing warnings or advice Separate chapters are now included for meteorological and catchment

monitoring techniques allowing a more in depth discussion of topics such as weather radar and water quality observations The chapters on meteorological and hydrological forecasting now include a greater emphasis on rainfall forecasting and ensemble and probabilistic techniques Regarding the interpretation of forecasts an updated chapter discusses topics such as approaches to issuing warnings and the use of decision support systems and risk based techniques Given the rapid pace of development in flash flood forecasting techniques flash floods and slower responding riverine floods are now considered in separate chapters This includes more detail on forecasting floods in large river basins and on methods for providing early warnings of debris flows surface water flooding and ice jam and dam break floods Later chapters now include more information on developing areas such as environmental modelling and seasonal flow forecasting As before examples of operational systems are provided throughout and the extensive sets of references which were a feature of the first edition have been revised and updated Key themes floods droughts meteorological observations catchment monitoring meteorological forecasts hydrological forecasts demand forecasts reservoirs water resources water quality decision support data assimilation probabilistic forecasts Kevin Sene is a civil engineer and researcher with wide experience in flood risk management water resources and hydrometeorology He has previously published books on flood warning forecasting and emergency response and flash floods Springer 2008 2013

Flood Forecasting Thomas E. Adams, Chandana Gangodagamage, Thomas C. Pagano, 2024-09-18 Flood Forecasting A Global Perspective Second Edition covers hydrologic forecasting systems on both a national and regional scale This updated edition includes a breakdown by county contribution and solutions to common issues with a wide range of approaches to address the difficulties inherent in the development implementation and operational success of national scale flood forecasting systems Special attention is given to recent advances in machine learning techniques for flood forecasting Overall the information will lead to improvements of existing systems and provide a valuable reference on the intricacies of forecast systems in different parts of the world Covers global and regional systems thus allowing readers to understand the different forecasting systems and how they developed Offers practical applications for groups trying to improve existing flood forecasting systems Includes innovative solutions for those interested in developing new systems Contains analytical and updated information on forecasting and monitoring systems

Modeling and Monitoring Extreme Hydrometeorological Events Maftai, Carmen, Muntean, Radu, Vaseashta, Ashok, 2024-01-10 In a world experiencing increasingly intense hydrometeorological events driven by climate change the need for effective solutions is paramount Modeling and Monitoring Extreme Hydrometeorological Events presents a cutting edge exploration of the challenges posed by flash droughts and floods offering innovative methodologies and tools to address these global issues Through a combination of computer modeling remote sensing artificial intelligence and case studies this book provides a comprehensive framework for understanding and mitigating the impacts of extreme hydrometeorological events It examines the rapid emergence of flash droughts which bring devastating consequences to agriculture water

resources ecosystems and public health The book also delves into the complex dynamics of flash floods exploring their causes impacts and potential solutions With a focus on water management the book addresses knowledge gaps provides adaptation and mitigation strategies and emphasizes the importance of climate change considerations It aims to empower scientists policymakers professionals and educators to develop effective policies and decision making frameworks to combat the increasing risks posed by extreme hydrometeorological events Written by a diverse team of experts in hydrology hydrometeorology emergency management civil engineering and related fields this book offers valuable insights and practical tools for researchers professors graduate students policymakers and professionals

Fundamentals of Meteorology Vlado Spiridonov, Mladjen Ćurić, 2020-11-05 This book is dedicated to the atmosphere of our planet and discusses historical and contemporary achievements in meteorological science and technology for the betterment of society The book explores many significant atmospheric phenomena and physical processes from the local to global scale as well as from the perspective of short and long term time scales and links these processes to various applications in other scientific disciplines with linkages to meteorology In addition to addressing general topics such as climate system dynamics and climate change the book also discusses atmospheric boundary layer atmospheric waves atmospheric chemistry optics photometeors electricity atmospheric modeling and numeric weather prediction Through its interdisciplinary approach the book will be of interest to researchers students and academics in meteorology and atmospheric science environmental physics climate change dynamics air pollution and human health impacts of atmospheric aerosols

Advances in Hydroinformatics Philippe Gourbesville, Jean A. Cunge, Guy Caignaert, 2015-08-21 This book is a collection of extended papers based on presentations given during the SIMHYDRO 2014 conference held in Sophia Antipolis in June 2014 It focuses on the modeling and simulation of fast hydraulic transients on 3D modeling and on uncertainties and multiphase flows The book explores both the limitations and performance of current models and presents the latest developments based on new numerical schemes high performance computing multiphysics and multiscale methods and better interaction with field or scale model data It addresses the interests of practitioners stakeholders researchers and engineers active in this field

Assessment of Hydrologic and Hydrometeorological Operations and Services National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, National Weather Service Modernization Committee, 1997-01-03 Floods are by far the most devastating of all weather related hazards in the United States The National Weather Service NWS is charged by Congress to provide river and flood forecasts and warnings to the public to protect life and property and to promote the nation's economic and environmental well being such as through support for water resources management As part of a modernization of its technologies and organizational structure the NWS is undertaking a thorough updating of its hydrologic products and services and the activities that produce them The National Weather Service Modernization Committee of the National Research Council undertook a comprehensive

assessment of the NWS plans and progress for the modernization of hydrologic and hydrometeorological operations and services The committee s conclusions and recommendations and their related analysis and rationale are presented in this report

Hydrology Theodore V. Hromadka II, Prasada Rao, 2021-02-17 In this book an attempt is made to highlight the recent advances in Hydrology The several topics examined in this book form the underpinnings of larger scale considerations including but not limited to topics such as large scale hydrologic processes and the evolving field of Critical Zone Hydrology Computational modeling data collection and visualization are additional subjects among others examined in the set of topics presented

Forest Hydrology Mingteh Chang, 2012-11-01 Due to its height density and thickness of crown canopy fluffy forest floor large root system and horizontal distribution forest is the most distinguished type of vegetation on the earth In the U S forests occupy about 30 percent of the total territory Yet this 30 percent of land area produces about 60 percent of total surface runoff the major water resource area of the country Any human activity in forested areas will inevitably disturb forest floors and destroy forest canopies consequently affecting the quantity quality and timing of water resources Thoroughly updated and expanded Forest Hydrology An Introduction to Water and Forests Third Edition discusses the concepts principles and processes of forest and forest activity impacts on the occurrence distribution and circulation of water and the aquatic environment Brings water resources and forest water relations into a single comprehensive textbook Focuses on the concepts processes and general principles in forest hydrology Covers functions properties and science of water water distribution forests and precipitation vaporization stream flow and stream sediment Discusses watershed management planning and practical applications of forest hydrology in resource management In a single textbook Forest Hydrology An Introduction to Water and Forests Third Edition comprehensively covers water and water resources issues forest characteristics relevant to the environment forest impacts in the hydrological cycle watershed research watershed management planning and hydrologic measurements With the addition of new chapters new issues and appendices this new edition is a valuable resource for upper level undergraduates in forest hydrology courses as well as professionals involved in water resources management and decision making in forested watersheds

Discovery Science Johannes Fürnkranz, Eyke Hüllermeier, Tomoyuki Higuchi, 2013-09-30 This book constitutes the proceedings of the 16th International Conference on Discovery Science DS 2013 held in Singapore in October 2013 and co located with the International Conference on Algorithmic Learning Theory ALT 2013 The 23 papers presented in this volume were carefully reviewed and selected from 52 submissions They cover recent advances in the development and analysis of methods of automatic scientific knowledge discovery machine learning intelligent data analysis and their application to knowledge discovery

Technologies and Innovation Rafael Valencia-García, Gema Alcaraz-Mármol, Javier Del Cioppo-Morstadt, Néstor Vera-Lucio, Martha Bucaram-Leverone, 2018-10-22 This book constitutes the proceedings of the 4th International Conference on Technologies and Innovation CITI 2018 held in Guayaquil Ecuador in November 2018 The 21 full papers presented in this volume were

carefully reviewed and selected from 64 submissions They are organized in topical sections named ICT in agronomy software engineering intelligent and knowledge based systems e learning

Management of Water Resources in Poland Martina Zeleňáková,Katarzyna Kubiak-Wójcicka,Abdelazim M. Negm,2021-01-23 This book contains a rich resource of essential information on the water resources capacities in Poland This book contributes to the recognition of water resources management including extreme hydrological events such as floods and droughts The book incorporates case studies illustrating solutions of water quantity management in Poland This edited book covers all water bodies in the country including rivers lakes reservoirs and groundwater The novelty of this book is that it represents the first time a manuscript covers the assessment of water resources in Poland including variability availability and economic use of the hydrological resources in the country with the lowest renewable resources of surface water per inhabitant in Europe Given the depth and breadth of its coverage the book offers engineers researchers policy planners decision makers and stakeholders essential new insights into efficient water resources management

Information Computing and Applications Chunfeng Liu,Leizhen Wang,Aimin Yang,2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and selected from 1089 submissions The papers are organized in topical sections on internet computing and applications multimedia networking and computing intelligent computing and applications computational statistics and applications knowledge management and applications communication technology and applications information management system control engineering and applications business intelligence and applications cloud and evolutionary computing computational genomics and proteomics engineering management and applications

Floods in a Changing Climate Ramesh S. V. Teegavarapu,2012-11-22 Provides measurement analysis and modeling methods for assessment of trends in extreme precipitation events for academic researchers and professionals

GIS in Sustainable Urban Planning and Management Martin van Maarseveen,Javier Martinez,Johannes Flacke,2018-12-07 The Open Access version of this book available at <http://www.tandfebooks.com> doi view 10.1201/9781315146638 has been made available under a Creative Commons Attribution Non Commercial No Derivatives 3.0 license GIS is used today to better understand and solve urban problems GIS in Sustainable Urban Planning and Management A Global Perspective explores and illustrates the capacity that geo information and GIS have to inform practitioners and other participants in the processes of the planning and management of urban regions The first part of the book addresses the concept of sustainable urban development its different frameworks the many ways of measuring sustainability and its value in the urban policy arena The second part discusses how urban planning can shape our cities examines various spatial configurations of cities the spread of activities and the demands placed on different functions to achieve strategic objective It further focuses on the recognition that urban dwellers are increasingly under

threat from natural hazards and climate change Written by authors with expertise on the applications of geo information in urban management this book showcases the importance of GIS in better understanding current urban challenges and provides new insights on how to apply GIS in urban planning It illustrates through real world cases the use of GIS in analyzing and evaluating the position of disadvantaged groups and areas in cities and provides clear examples of applied GIS in urban sustainability and urban resilience The idea of sustainable development is still very much central in the new development agenda of the United Nations and in that sense it is of particular importance for students from both the Global South and Global North Professionals researchers and students alike will find this book to be an invaluable resource for understanding and solving problems relating to sustainable urban planning and management *Remote Sensing*

Applications in Environmental and Earth System Sciences Nicolas R. Dalezios, 2021-05-11 Remote Sensing Applications in Environmental and Earth System Sciences is a contemporary multi disciplinary multi scaling updated and upgraded approach of applied remote sensing in the environment The book begins with an overview of remote sensing technology and then explains the types of data that can be used as well as the image processing and analysis methods that can be applied to each type of application through the use of case studies throughout Includes a wide spectrum of environmental applications and issues Explains methodological image analysis and interpretation procedures for conducting a variety of environmental analyses Discusses the development of early warning systems Covers monitoring of the environment as a whole atmosphere land and water Explores the latest remote sensing systems in environmental applications This book is an excellent resource for anyone who is interested in remote sensing technologies and their use in Earth systems natural resources and environmental science **Flash Floods** Kevin Sene, 2012-12-14 Flash floods typically develop in a period a few hours or less and can arise from heavy rainfall and other causes such as dam or flood defence breaches and ice jam breaks The rapid development often associated with a high debris content can present a considerable risk to people and property This book describes recent developments in techniques for monitoring and forecasting the development of flash floods and providing flood warnings Topics which are discussed include rainfall and river monitoring nowcasting Numerical Weather Prediction rainfall runoff modelling and approaches to the dissemination of flood warnings and provision of an emergency response The book is potentially useful on civil engineering water resources meteorology and hydrology courses and for post graduate studies but is primarily intended as a review of the topic for a wider audience **Application of Pattern Recognition and**

Adaptive DSP Methods for Spatio-temporal Analysis of Satellite Based Hydrological Datasets Anish Chand Turlapaty, 2010-06-17 Data assimilation of satellite based observations of hydrological variables with full numerical physics models can be used to downscale these observations from coarse to high resolution to improve microwave sensor based soil moisture observations Moreover assimilation can also be used to predict related hydrological variables e g precipitation products can be assimilated in a land information system to estimate soil moisture High quality spatio temporal observations

of these processes are vital for a successful assimilation which in turn needs a detailed analysis and improvement In this research pattern recognition and adaptive signal processing methods are developed for the spatio temporal analysis and enhancement of soil moisture and precipitation datasets These methods are applied to accomplish the following tasks i a consistency analysis of level 3 soil moisture data from the Advanced Microwave Scanning Radiometer EOS AMSR E against in situ soil moisture measurements from the USDA Soil Climate Analysis Network SCAN This method performs a consistency assessment of the entire time series in relation to others and provides a spatial distribution of consistency levels The methodology is based on a combination of wavelet based feature extraction and oneclass support vector machines SVM classifier Spatial distribution of consistency levels are presented as consistency maps for a region including the states of Mississippi Arkansas and Louisiana These results are well correlated with the spatial distributions of average soil moisture and the cumulative counts of dense vegetation ii a modified singular spectral analysis based interpolation scheme is developed and validated on a few geophysical data products including GODAE s high resolution sea surface temperature GHRSSST This method is later employed to fill the systematic gaps in level 3 AMSR E soil moisture dataset iii a combination of artificial neural networks and vector space transformation function is used to fuse several high resolution precipitation products HRPP The final merged product is statistically superior to any of the individual datasets over a seasonal period The results have been tested against ground based measurements of rainfall over our study area and average accuracies obtained are 85% in the summer and 55% in the winter 2007 Hydrometeorological Service Operations for the 1990's ,1996

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