

Kevin Sene



Hydro- meteorology

Forecasting and Applications

 Springer

Hydrometeorology Forecasting And Applications

Joacim Rocklöv



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 *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

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 *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 *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

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

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

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