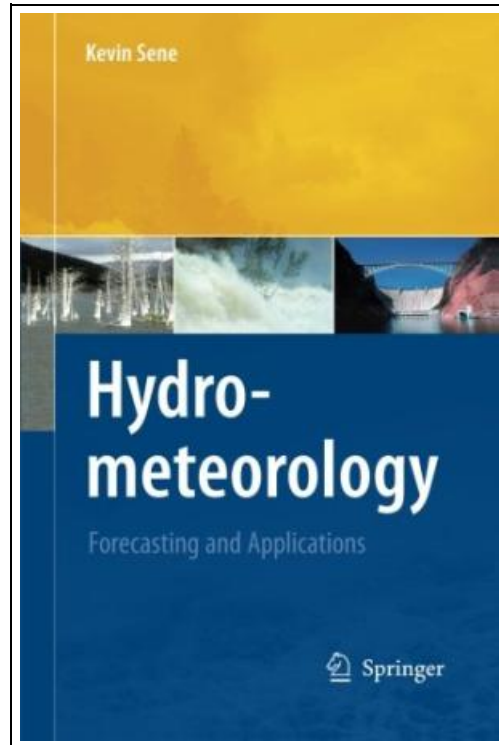


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Springer, Netherlands, 2014. Paperback. Book Condition: New. 2010 ed.. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.This book provides an introduction to recent developments in the area of hydrometeorological forecasting, with a focus on water-related applications of meteorological observation and forecasting techniques. The Encyclopaedia Britannica defines hydrometeorology as a branch of meteorology that deals with problems involving the hydrologic cycle, the water budget and the rainfall statistics of storms.(continued). The topic spans a wide range of disciplines, including raingauge, weather radar, satellite, river and other monitoring techniques, rainfall-runoff, flow routing and hydraulic models, and nowcasting and Numerical Weather Prediction techniques. Applications include food forecasting, drought forecasting, climate change impact assessments, reservoir management, and water resources and water quality studies. The emphasis in this book is on hydrometeorological forecasting techniques, which are usually distinguished from prediction or simulation studies in that estimates are provided for a specific time or period in the future, rather than for typical past, current or future conditions. Often this requires the use of real-time observations and/or forecasts of meteorological conditions as inputs to hydrological models. The availability of information on current conditions also means that - particularly for short lead times - data assimilation techniques can be used to improve model outputs; typically by adjusting the model inputs, states or parameters, or by post-processing the outputs based on the differences between observed and forecast values up to the time of the forecast.



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