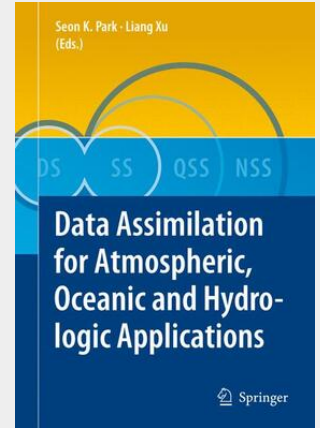


Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications

Data assimilation (DA) has been recognized as one of the core techniques for modern forecasting in various earth science disciplines including meteorology, oceanography, and hydrology. Since early 1990s DA has been an important session topic in many academic meetings organized by leading societies such as the American Meteorological Society, American Geophysical Union, European Geophysical Union, World Meteorological Organization, etc. Recently, the 2 Annual Meeting of the Asia Oceania Geosciences Society (AOGS), held in Singapore in June 2005, conducted a session on DA under the title of "Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications." This first DA session in the 2 AOGS was a great success with more than 30 papers presented and many great ideas exchanged among scientists from the three different disciplines. The scientists who participated in the meeting suggested making the DA session a biennial event. Two years later, at the 4 AOGS Annual Meeting, Bangkok, Thailand, the DA session was officially named "Sasaki Symposium on Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications," to honor Prof. Yoshi K. Sasaki of the University of Oklahoma for his life-long contributions to DA in geosciences.

This book presents the most recent achievements in data assimilation in Geosciences, especially in regards to meteorology, oceanography and hydrology. It spans both theoretical and applied aspects with various methodologies including variational, Kalman filter, maximum likelihood ensemble filter and other ensemble methods. Besides data assimilation, other important topics are also covered including targeting observation, parameter estimation, and remote sensing data retrieval. The book will be useful to individual researchers as well as graduate students as a reference in the field of data assimilation.



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