



Flood Warning, Forecasting and Emergency Response

By Kevin Sene

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Recent flood events in Europe, the USA and elsewhere have shown the devastating impact that flooding can have on people and property. Flood warning and forecasting systems provide a well-established way to help to reduce the effects of flooding by allowing people to be evacuated from areas at risk, and for measures to be taken to reduce damage to property. With sufficient warning, temporary defences (sandbags, flood gates etc) can also be installed, and river control structures operated to mitigate the effects of flooding.

Many countries and local authorities now operate some form of flood warning system, and the underlying technology requires knowledge across a range of technical areas, including rainfall and tidal detection systems, river and coastal flood forecasting models, flood warning dissemination systems, and emergency response procedures.

This book provides a comprehensive account of the flood forecasting, warning and emergency response process, including techniques for predicting the development of flood events, and for issuing appropriate warnings. Related topics, such as telemetry and information systems, and flood warning economics, are also discussed. For perhaps the first time, this book brings together in a single volume the many strands of this interesting multidisciplinary topic, and will serve as a reference for researchers, policy makers and engineers. The material on meteorological, hydrological and coastal modelling and monitoring may also be of interest to a wider audience.

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Editorial Review

From the Back Cover

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Kevin Sene is a civil engineer and researcher whose experience includes developing flood warning and forecasting investment strategies, writing best practice guidelines in flood forecasting, and designing operational systems. With more than 20 years of experience, he has published some 45 scientific and conference papers on topics in hydrology, hydrometeorology and hydraulics.

About the Author

The author K. Sene has wide practical experience in the implementation of operational flood warning and forecasting systems, together with research experience in hydrology, meteorology and information systems. He has also played a leading role in developing several best practice guidelines on flood forecasting techniques for use by engineers and policy makers.

Users Review

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Raymond Albanese:

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