



Operational Weather Forecasting

Peter Michael Inness, Steve Dorling

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This book offers a complete primer, covering the end-to-end process of forecast production, and bringing together a description of all the relevant aspects together in a single volume; with plenty of explanation of some of the more complex issues and examples of current, state-of-the-art practices.

"Operational Weather Forecasting" covers the whole process of forecast production, from understanding the nature of the forecasting problem, gathering the observational data with which to initialise and verify forecasts, designing and building a model (or models) to advance those initial conditions forwards in time and then interpreting the model output and putting it into a form which is relevant to customers of weather forecasts. Included is the generation of forecasts on the monthly-to-seasonal timescales, often excluded in text-books despite this type of forecasting having been undertaken for several years.

This is a rapidly developing field, with a lot of variations in practices between different forecasting centres. Thus the authors have tried to be as generic as possible when describing aspects of numerical model design and formulation. Despite the reliance on NWP, the human forecaster still has a big part to play in producing weather forecasts and this is described, along with the issue of forecast verification - how forecast centres measure their own performance and improve upon it.

Advanced undergraduates and postgraduate students will use this book to understand how the theory comes together in the day-to-day applications of weather forecast production. In addition, professional weather forecasting practitioners, professional users of weather forecasts and trainers will all find this new member of the RMetS "Advancing Weather and Climate" series a valuable tool. Provides an end-to-end description of the weather forecasting process Clearly structured and pitched at an accessible level, the book discusses the practical choices that operational forecasting centres have to make in terms of what numerical models they use and when they are run. Takes a very practical approach, using real life case-studies to contextualize information Discusses the latest advances in the area, including ensemble methods, monthly to seasonal range prediction and use of 'nowcasting' tools such as radar and satellite imagery Full colour throughout Written by a highly respected team of authors with experience in both academia and practice. Part of the RMetS book series 'Advancing Weather and Climate'

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Lisa Morgan:

A lot of people always spent their free time to vacation or perhaps go to the outside with them family members or their friend. Do you realize? Many a lot of people spent their free time just watching TV, or playing video games all day long. If you would like try to find a new activity this is look different you can read a new book. It is really fun for you personally. If you enjoy the book that you simply read you can spent all day every day to reading a publication. The book Operational Weather Forecasting it is very good to read. There are a lot of individuals who recommended this book. We were holding enjoying reading this book. When you did not have enough space bringing this book you can buy typically the e-book. You can more easily to read this book out of your smart phone. The price is not too expensive but this book possesses high quality.

Bonnie Fernandez:

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