

# Advance Book Information

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## Short- and Medium-Range Numerical Weather Prediction

Collection of Papers Presented at the WMO/IUGG NWP Symposium, Tokyo, 4-8 August 1986

edited by T. MATSUNO, Geophysical Institute, University of Tokyo

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**Audience:** Earth Scientist.  
 Atmospheric Scientist.  
 Meteorologist.  
 Scientists and Engineers engaged in Weather Prediction.

### About this book.

Numerical Weather Prediction (NWP) has now become an indispensable tool for operational weather forecasting. Owing to breakthroughs occurring over the past several years, the development of NWP has been remarkably accelerated. The Tokyo NWP Symposium in 1986 was very timely in that it helped comprehend and survey the information and ideas resulting from the recent surge in the progress of NWP. This book is a collection of papers presented at the symposium, and contains a lot of new information about methods and achievements in current NWP research.

The papers presented in this book cover a wide range of topics concerning NWP; the book includes review articles on each topic and papers contributed by operational forecast centers, as well as contributions from individual research scientists.

The book is divided into 10 chapters (68 papers):

- I History of Numerical Weather Prediction
- II Analysis, Data Assimilation and Initialization
- III Parameterizations of Physical Processes
- IV Numerical Schemes
- V Global Prediction Models
- VI Limited-Area Models
- VII Modeling and Prediction of Meso-Scale Phenomena
- VIII Numerical Weather Prediction in Tropics including Tropical Cyclone Prediction
- IX Treatment and Effects of Orography
- X Systematic Errors and Longer-Range Prediction Experiment

As mentioned before, the book gives an overview of the present status of NWP; therefore, it can serve as a reference book for those who are involved in the operational and research aspects of NWP. Since there are review papers on each topics, the book may be used as an introductory text book for graduate students and others interested in learning about NWP.