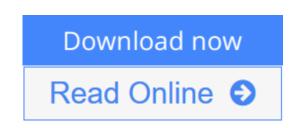# Computational Methods for the Atmosphere and the Oceans, Volume 14: Special Volume (Handbook of Numerical Analysis)

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This book provides a survey of the frontiers of research in the numerical modeling and mathematical analysis used in the study of the atmosphere and oceans. The details of the current practices in global atmospheric and ocean models, the assimilation of observational data into such models and the numerical techniques used in theoretical analysis of the atmosphere and ocean are among the topics covered.

• Truly interdisciplinary: scientific interactions between specialties of atmospheric and ocean sciences and applied and computational mathematics
• Uses the approach of computational mathematicians, applied and numerical analysts and the tools appropriate for unsolved problems in the atmospheric and oceanic sciences
• Contributions uniquely address central problems and provide a survey of the frontier of research

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Editorial Review

Review

"Since the IXth volume in the series 'Handbook of Numerical Analysis', volumes are devoted to a single specific application and are for this reason called 'Special Volumes'. This XIVth volume focuses on Computational Methods of the Atmosphere and the Ocean and serves to bring useful and important geophysical problems to the attention of mathematicians as well as to present useful tools developed by mathematicians. As such, it addresses a wide audience of researchers and is most useful to those which have some previous knowledge of the subject... All chapters of the book are self-contained, include references and, if applicable, mostly gray-scale plots. 31 color-plates are collected at the end of the book."--**Zentralblatt MATH 1226-1**

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Richard Sims:

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