

G.I. Marchuk A.S. Sarkisyan

Mathematical Modelling of Ocean Circulation



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**Guriĭ Ivanovich Marchuk, Artem
Sarkisovich Sarkisĭan**



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The problems of ocean dynamics present more and more complex tasks for investigators based on the continuously sophistication of theoretical models which are applied with the help of universal and efficient algorithms of numerical mathematics. The present level of our knowledge in the field of mathematical physics and numerical mathematics allows one to give rather complete theoretical analysis of basic statements of problems as well as numerical algorithms. Our task is to perform such analysis and also to analyze the results of calculations in order to improve our knowledge of the mechanism of large scale hydrological processes occurring in the World Ocean. The new level of numerical mathematics has essentially influenced the formation of new solution methods of ocean dynamics problems among which an important one is the splitting method which has been already widely practised in various fields of science and engineering. A number of monographs by N. N. Yanenko, A. A. Samarsky, G. Marchuk, Rozhdestvensky and Yanenko (1968), Samarsky and Andreyev (1976), Marchuk (1970, 1980b) and others are devoted to the description of this methods. But the methods of the splitting theory require extensive creative work for their application to concrete problems which are peculiar as a rule in problem formulation. The success of the application of these methods is related to the deep understanding of the essence of the described processes. In the last decades fundamental works of Arakawa, K. Mathematical Modelling of Ocean Circulation G.I. Marchuk, A.S. Sarkisyan, 1988. The problems of ocean dynamics present more and more complex tasks for investigators based on the continuously sophistication of theoretical models which are applied with the help of universal and efficient algorithms of numerical mathematics. The present level of our knowledge in the field of mathematical physics and numerical mathematics allows one to give rather complete theoretical analysis of basic statements of problems as well as numerical algorithms. Our task is to perform such analysis and also to analyze the results of calculations in order to improve our knowledge of the mechanism of large scale hydrological processes occurring in the World Ocean. The new level of numerical mathematics has essentially influenced the formation of new solution methods of ocean dynamics problems among which an important one is the splitting method which has been already widely practised in various fields of science and engineering. A number of monographs by N. N. Yanenko, A. A. Samarsky, G. Marchuk, Rozhdestvensky and Yanenko (1968), Samarsky and Andreyev (1976), Marchuk (1970, 1980b) and others are devoted to the description of this methods. But the methods of the splitting theory require extensive creative work for their application to concrete problems which are peculiar as a rule in problem formulation. The success of the application of these methods is related to the deep understanding of the essence of the described processes. In the last decades fundamental works of Arakawa, K. *Ocean Circulation and Pollution Control - A Mathematical and Numerical Investigation* Jesús I. Díaz, 2012-12-06. In the framework of the Diderot Mathematical Forum DMF of the European Mathematical Society EMS December 19-20 1997 a Videoconference was held linking three teams of specialists in Amsterdam, Madrid and Venice.

respectively The general subject of this videoconference the second one of the DMF series was Mathematics and Environment and more specifically Problems related to Water This volume contains the texts of the Madrid site contributions with important new and unpublished examples on the modeling mathematical and numerical analysis and treatment of the associated control problems of relevant questions arising in Oceanography and Environment Numerical Ocean Circulation Modeling Aike Beckmann,Dale B Haidvogel,1999-04-29 This book offers a comprehensive overview of the models and methods employed in the rapidly advancing field of numerical ocean circulation modeling For those new to the field concise reviews of the equations of oceanic motion sub grid scale parameterization and numerical approximation techniques are presented and four specific numerical models chosen to span the range of current practice are described in detail For more advanced users a suite of model test problems is developed to illustrate the differences among models and to serve as a first stage in the quantitative evaluation of future algorithms The extensive list of references makes this book a valuable text for both graduate students and postdoctoral researchers in the marine sciences and in related fields such as meteorology and climate and coupled biogeochemical modeling Numerical Modeling of Ocean Circulation Robert N. Miller,2007-01-18 The modelling of ocean circulation is important not only for its own sake but also in terms of the prediction of weather patterns and the effects of climate change This 2007 book introduces the basic computational techniques necessary for all models of the ocean and atmosphere and the conditions they must satisfy It describes the workings of ocean models the problems that must be solved in their construction and how to evaluate computational results Major emphasis is placed on examining ocean models critically and determining what they do well and what they do poorly Numerical analysis is introduced as needed and exercises are included to illustrate major points Developed from notes for a course taught in physical oceanography at the College of Oceanic and Atmospheric Sciences at Oregon State University this book is ideal for graduate students of oceanography geophysics climatology and atmospheric science and researchers in oceanography and atmospheric science

IUTAM Symposium on Advances in Mathematical Modelling of Atmosphere and Ocean Dynamics P.F.

Hodnett,2012-12-06 The goals of the Symposium were to highlight advances in modelling of atmosphere and ocean dynamics to provide a forum where atmosphere and ocean scientists could present their latest research results and learn of progress and promising ideas in these allied disciplines to facilitate interaction between theory and applications in atmosphere ocean dynamics These goals were seen to be especially important in view of current efforts to model climate requiring models which include interaction between atmosphere ocean and land influences Participants were delighted with the diversity of the scientific programme the opportunity to meet fellow scientists from the other discipline either atmosphere or ocean with whom they do not normally interact through their own discipline the opportunity to meet scientists from many countries other than their own the opportunity to hear significant presentations 50 minutes from the keynote speakers on a range of relevant topics Certainly the goal of creating a forum for exchange between atmosphere and ocean scientists who need to

input to create realistic models for climate prediction was achieved by the Symposium and this goal will hopefully be further advanced by the publication of these Proceedings **Modelling Ocean Climate Variability** Artem S. Sarkisyan, Jürgen Sündermann, 2009-05-13 In this wide ranging and comprehensive review of the historical development and current status of ocean circulation models the analysis extends from simple analytical approaches to the latest high resolution numerical models with data assimilation The authors both of whom are pioneer scientists in ocean and shelf sea modelling look back at the evolution of Western and Eastern modelling methodologies during the second half of the last century They also present the very latest information on ocean climate modelling and offer examples for a number of oceans and shelf seas The book includes a critical analysis of literature on ocean climate variability modelling as well as assessing the strengths and weaknesses of the best known modelling techniques It also anticipates future developments in the field focusing on models based on a synthesis of numerical simulation and field observation and on nonlinear thermodynamic model data synthesis

Numerical Modeling of Ocean Circulation Robert Naham Miller, 2007 *NBS Special Publication*, 1973

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