



# Climate Modeling for Scientists and Engineers

*John B. Drake*

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## **Climate Modeling for Scientists and Engineers** John B. Drake

Climate modeling and simulation teach us about past, present, and future conditions of life on earth and help us understand observations about the changing atmosphere and ocean and terrestrial ecology. Focusing on high-end modeling and simulation of earth's climate, *Climate Modeling for Scientists and Engineers* presents observations about the general circulations of the earth and the partial differential equations used to model the dynamics of weather and climate and covers numerical methods for geophysical flows in more detail than many other texts. It also discusses parallel algorithms and the role of high-performance computing used in the simulation of weather and climate and provides supplemental lectures and MATLAB exercises on an associated Web page.

**Audience:** This book is intended for graduate students in science and engineering. It is also useful for a broad spectrum of computational science and engineering researchers, especially those who want a brief introduction to the methods and capabilities of climate models and those who use climate model results in their investigations. Information on numerical methods used to solve the equations of motion and climate simulations using parallel algorithms on high-performance computers challenges researchers who aim to improve the prediction of climate on decadal to century time scales.

**Contents:** Chapter 1: Earth Observation; Chapter 2: Geophysical Flow; Chapter 3: Numerical Methods of Climate Modeling; Chapter 4: Climate Simulation; Chapter 5: Climate Analysis

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