

FOURTH EDITION

The **CLIMATE MODELLING PRIMER**



**Kendal McGuffie
Ann Henderson-Sellers**



WILEY Blackwell

Climate Modelling Primer

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Climate Modelling Primer:

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The Climate Modelling Primer Kendal McGuffie,Ann Henderson-Sellers,John Wiley & Sons,2014

A Climate Modelling Primer Kendal McGuffie,1997

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Climate The components of climate Climate change assessment Climate forcings Climate feedbacks and sensitivity Range of questions for climate modelling A history of and introduction to climate models Introducing climate modelling Types of climate models History of climate modelling Sensitivity of climate models Parameterization of climate processes Simulation of the full interacting climate system one goal of modelling Energy balance models Balancing the planetary radiation budget The structure of energy balance models Parameterizing the climate system for energy balance models A basic energy balance climate model Energy balance models and glacial cycles Box models another form of energy balance model another form of energy balance model Energy balance models deceptively simple models Computationally efficient models Why lower complexity One dimensional radiative convective models Radiation the driver of climate Convective adjustment Sensitivity experiments with radiative convective models Development of radiative convective models Two dimensional statistical dynamical climate models Other types of computationally efficient models Why are some climate modellers flatlanders General circulation climate models Three dimensional models of the climate system Atmospheric general circulation models Atmospheric GCM components Modelling the ocean circulation Modelling the cryosphere Incorporating vegetation Coupling models towards the AOBGCM Using GCMs Evaluation and

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Climatology and Meteorology : a Climate Modelling Primer. 3rd Ed
McGuffie,2005

A Climate Modelling Primer Ann Henderson-Sellers,Kendal McGuffie,1987 This is the first self contained introduction to climate modelling Assuming only a basic algebra background this text provides a history and introduction to climate models and describes such model types as energy balance radiative convective two dimensional and general circulation Stresses the importance of simple models of the climate and their value in testing and extending the concepts upon which much more complex models are founded Written for an interdisciplinary audience rather than for specialists in atmosphere science this treatment shows how to judge the credibility of different model types and when and how to apply the results of modelling exercises

Ecology ,1989

Russian Meteorology and Hydrology ,2001

Cumulative Book Index ,1925 A world list of books in the English language

New Scientist and Science Journal ,1988

New Scientist ,1988

Forest Economics on the Edge David H. Newman,Mary Ellen Aronow,1994

Michigan Geography and Geology Randall J. Schaetzl,2009

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Table of Contents Climate Modelling Primer

1. Understanding the eBook Climate Modelling Primer
 - The Rise of Digital Reading Climate Modelling Primer
 - Advantages of eBooks Over Traditional Books
2. Identifying Climate Modelling Primer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Climate Modelling Primer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Climate Modelling Primer
 - Personalized Recommendations
 - Climate Modelling Primer User Reviews and Ratings
 - Climate Modelling Primer and Bestseller Lists

5. Accessing Climate Modelling Primer Free and Paid eBooks
 - Climate Modelling Primer Public Domain eBooks
 - Climate Modelling Primer eBook Subscription Services
 - Climate Modelling Primer Budget-Friendly Options
6. Navigating Climate Modelling Primer eBook Formats
 - ePub, PDF, MOBI, and More
 - Climate Modelling Primer Compatibility with Devices
 - Climate Modelling Primer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Climate Modelling Primer
 - Highlighting and Note-Taking Climate Modelling Primer
 - Interactive Elements Climate Modelling Primer
8. Staying Engaged with Climate Modelling Primer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Climate Modelling Primer
9. Balancing eBooks and Physical Books Climate Modelling Primer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Climate Modelling Primer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Climate Modelling Primer
 - Setting Reading Goals Climate Modelling Primer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Climate Modelling Primer
 - Fact-Checking eBook Content of Climate Modelling Primer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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