



Numerical Techniques for Global Atmospheric Models (Paperback)

By -

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2013. Paperback. Condition: New. 2011 ed.. Language: English . Brand New Book ***** Print on Demand *****.This book surveys recent developments in numerical techniques for global atmospheric models. It is based upon a collection of lectures prepared by leading experts in the field. The chapters reveal the multitude of steps that determine the global atmospheric model design. They encompass the choice of the equation set, computational grids on the sphere, horizontal and vertical discretizations, time integration methods, filtering and diffusion mechanisms, conservation properties, tracer transport, and considerations for designing models for massively parallel computers. A reader interested in applied numerical methods but also the many facets of atmospheric modeling should find this book of particular relevance.



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