

Introduction to Geophysical Fluid Dynamics, Volume 101, Second Edition: Physical and Numerical Aspects (International Geophysics)

By Benoit Cushman-Roisin, Jean-Marie Beckers

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This book provides an introductory-level exploration of geophysical fluid dynamics (GFD), the principles governing air and water flows on large terrestrial scales. Physical principles are illustrated with the aid of the simplest existing models, and the computer methods are shown in juxtaposition with the equations to which they apply. It explores contemporary topics of climate dynamics and equatorial dynamics, including the Greenhouse Effect, global warming, and the El Nino Southern Oscillation.

- Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volume
- Explores contemporary topics such as the Greenhouse Effect, global warming and the El Nino Southern Oscillation
- Biographical and historical notes at the ends of chapters trace the intellectual development of the field
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Review

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"This book...is one of the best books introducing the subject matter. The physics underlying the different phenomena of interest to geophysical fluid dynamics is concisely explained...Several problems, questions and exercises are given at the end of each chapter. I highly recommend this to undergraduate students, however, graduate students will also benefit from the material presented."--**Contemporary Physics, January 29, 2013** "...*Introduction to Geophysical Fluid Dynamics* is one of the best books introducing the subject matter. The physics underlying the different phenomena of interest to geophysical fluid dynamics is concisely explained...I highly recommend this to undergraduate students, however, graduate students will also benefit from the material presented."--Contemporary Physics, Volume 54, Issue 1

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