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Introduction 1.1 THE ATMOSPHERIC CONTINUUM Dynamic
meteorology is the study of those motions of the
atmosphere that are associated with weather and climate.
For all such motions the discrete molecular nature of the
atmosphere can be ignored, and the atmosphere can be
regarded as

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An Introduction to Dynamic Meteorology (International
Geophysics) J. R. Holton Published by Elsevier Science
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An Introduction to Dynamic Meteorology, Fourth Edition presents a cogent explanation of the fundamentals of meteorology, and explains storm dynamics for weather-oriented meteorologists. This revised edition features updated treatments on climate dynamics, tropical meteorology, middle atmosphere dynamics, and numerical prediction.

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classroom, errata, plans for future editions, current weather, and anything else that makes sense in the world of atmospheric dynamics.

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An Introduction to Dynamic Meteorology. James R. Holton, Gregory J. Hakim. During the past decade, the science of dynamic meteorology has continued its rapid advance. The scope of dynamic meteorology has broadened considerably. Much of the material is based on a two-term course for seniors majoring in atmospheric sciences.

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Edition Provides clear physical explanations of key dynamical principles Contains a wealth of illustrations to elucidate text and equations, plus end-of-chapter problems Instructor's Manual available to adopters NEW IN THIS EDITION Substantial chapter updates, and integration of new research on climate change Content on the most recent developments in predictability, data assimilation, climate sensitivity, and generalized stability A fresh streamlined pedagogical approach to tropical meteorology, baroclinic development, and quasi-geostrophic theory Aspects of synoptic meteorology provide stronger linkage to observations Companion website includes MATLAB codes for plotting animated weather patterns; Problem sets and exercises; streaming video, illustrations and figures.

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adopters NEW IN THIS EDITION * A CD-ROM with MATLAB® exercises and demonstrations * Updated treatments on climate dynamics, tropical meteorology, middle atmosphere dynamics, and numerical prediction

For advanced undergraduate and beginning graduate students in atmospheric, oceanic, and climate science, Atmosphere, Ocean and Climate Dynamics is an introductory textbook on the circulations of the atmosphere and ocean and their interaction, with an emphasis on global scales. It will give students a good grasp of what the atmosphere and oceans look like on the large-scale and why they look that way. The role of the oceans in climate and paleoclimate is also discussed. The combination of

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observations, theory and accompanying illustrative laboratory experiments sets this text apart by making it accessible to students with no prior training in meteorology or oceanography. * Written at a mathematical level that is appealing for undergraduates and beginning graduate students * Provides a useful educational tool through a combination of observations and laboratory demonstrations which can be viewed over the web * Contains instructions on how to reproduce the simple but informative laboratory experiments * Includes copious problems (with sample answers) to help students learn the material.

Interest in the meteorology of the stratosphere and mesosphere has been simulated in the past few years by

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concerns over possible depletion of the ozone layer as a result of reactions involving pollutants introduced by human activities. Concurrently there has been an upsurge in research on various aspects of the meteorology of the stratosphere. This monograph provides an account of the fundamental dynamical processes which control the general circulation of the stratosphere and mesosphere and are thus responsible for the transport of trace substances in that region of the atmosphere. Principles necessary for understanding the dynamics of large-scale motions in the stratosphere and mesosphere are systematically developed so that this monograph should prove useful not only as a reference work for research scientists, but as a textbook for courses in dynamic meteorology of the upper atmosphere.

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This exciting text provides a mathematically rigorous yet accessible textbook that is primarily aimed at atmospheric science majors. Its accessibility is due to the text's emphasis on conceptual understanding. The first five chapters constitute a companion text to introductory courses covering the dynamics of the mid-latitude atmosphere. The final four chapters constitute a more advanced course, and provide insights into the diagnostic power of the quasi-geostrophic approximation of the equations outlined in the previous chapters, the meso-scale dynamics of the frontal zone, the alternative PV perspective for cyclone interpretation, and the dynamics of the life-cycle of mid-latitude cyclones. Written in a clear and accessible style

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Features real weather examples and global case studies
Each chapter sets out clear learning objectives and tests students ' knowledge with concluding questions and answers A Solutions Manual is also available for this textbook on the Instructor Companion Site www.wileyurope.com/college/martin. " ...a student-friendly yet rigorous textbook that accomplishes what no other textbook has done before... I highly recommend this textbook. For instructors, this is a great book if they don ' t have their own class notes – one can teach straight from the book. And for students, this is a great book if they don ' t take good class notes – one can learn straight from the book. This is a rare attribute of advanced textbooks. " Bulletin of the American Meteorological Society (BAMS),

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Atmosphere-Ocean Dynamics deals with a systematic and unified approach to the dynamics of the ocean and atmosphere. The book reviews the relationship of the ocean-atmosphere and how this system functions. The text explains this system through radiative equilibrium models; the book also considers the greenhouse effect, the effects of convection and of horizontal gradients, and the variability in radiative driving of the earth. Equations in the book show the properties of a material element, mass conservation, the balance of scalar quantity (such as salinity), and the

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mathematical behavior of the ocean and atmosphere. The book also addresses how the ocean-atmosphere system tends to adjust to equilibrium, both in the absence and presence of driving forces such as gravity. The text also explains the effect of the earth's rotation on the system, as well as the application of forced motions such as that produced by wind or temperature changes. The book explains tropical dynamics and the effects of variation of the Coriolis parameter with latitude. The text will be appreciated by meteorologists, environmentalists, students studying hydrology, and people working in general earth sciences.

The weather can be a cause of disruption, despair and even

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danger everywhere around the world at one time or another. Even when benign it is a source of constant fascination. Applied Atmospheric Dynamics connects this interest with the theoretical underpinnings of fluid dynamics; linking real physical events as diverse as Hurricane Katrina and the strong katabatic winds of Antarctica, with quantitative conceptual models of atmospheric behaviour. Assuming only basic calculus the book provides a physical basis for understanding atmospheric motions around the globe as well as detailing the advances that have led to a greater understanding of weather and climate. The accompanying supplementary CD-ROM features colour graphics, maps, databases, animations, project materials, as well as weather data tips. Covers the

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standard theoretical principles of atmospheric dynamics and applies the theory to global real world examples
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Fluid dynamics is fundamental to our understanding of the atmosphere and oceans. Although many of the same principles of fluid dynamics apply to both the atmosphere and oceans, textbooks tend to concentrate on the

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atmosphere, the ocean, or the theory of geophysical fluid dynamics (GFD). This textbook provides a comprehensive unified treatment of atmospheric and oceanic fluid dynamics. The book introduces the fundamentals of geophysical fluid dynamics, including rotation and stratification, vorticity and potential vorticity, and scaling and approximations. It discusses baroclinic and barotropic instabilities, wave-mean flow interactions and turbulence, and the general circulation of the atmosphere and ocean. Student problems and exercises are included at the end of each chapter. Atmospheric and Oceanic Fluid Dynamics: Fundamentals and Large-Scale Circulation will be an invaluable graduate textbook on advanced courses in GFD, meteorology, atmospheric science and oceanography, and

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an excellent review volume for researchers. Additional resources are available at www.cambridge.org/9780521849692.

Atmospheric Science, Second Edition, is the long-awaited update of the classic atmospheric science text, which helped define the field nearly 30 years ago and has served as the cornerstone for most university curricula. Now students and professionals alike can use this updated classic to understand atmospheric phenomena in the context of the latest discoveries, and prepare themselves for more advanced study and real-life problem solving. This latest edition of Atmospheric Science, has been revamped in terms of content and appearance. It contains new chapters

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on atmospheric chemistry, the Earth system, the atmospheric boundary layer, and climate, as well as enhanced treatment of atmospheric dynamics, radiative transfer, severe storms, and global warming. The authors illustrate concepts with full-color, state-of-the-art imagery and cover a vast amount of new information in the field. Extensive numerical and qualitative exercises help students apply basic physical principles to atmospheric problems. There are also biographical footnotes summarizing the work of key scientists, along with a student companion website that hosts climate data; answers to quantitative exercises; full solutions to selected exercises; skew-T log p chart; related links, appendices; and more. The instructor website features: instructor ' s guide; solutions to quantitative

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exercises; electronic figures from the book; plus supplementary images for use in classroom presentations. Meteorology students at both advanced undergraduate and graduate levels will find this book extremely useful. Full-color satellite imagery and cloud photographs illustrate principles throughout Extensive numerical and qualitative exercises emphasize the application of basic physical principles to problems in the atmospheric sciences Biographical footnotes summarize the lives and work of scientists mentioned in the text, and provide students with a sense of the long history of meteorology Companion website encourages more advanced exploration of text topics: supplementary information, images, and bonus exercises

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