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The Atmosphere: An Introduction to Meteorology, Thirteenth Edition, is designed to meet the needs of students who enroll in such a course. It is our hope that the knowledge gained by taking a class and using this book will encourage many to actively participate in bettering the environment, and others may be sufficiently stimulated to continue their study of meteorology. Equally important, however, is our belief that a basic understanding of the atmosphere and its processes will greatly enhance appreciation of our planet and thereby enrich the reader's life"--Provided by publisher.

This loose-leaf, three-hole punched version of the textbook gives students the flexibility to take only what they need to class and add their own notes--all at an affordable price. For introductory meteorology courses. Provide the perfect storm of rich media and active learning tools The Atmosphere: An Introduction to Meteorology remains the definitive introductory meteorology text, reinforcing basic concepts with easy-to-grasp, everyday examples. Authors Lutgens and Tarbuck, now joined by Redina Herman, present meteorology with a friendly, largely non-technical narrative, timely coverage of recent atmospheric events, and carefully crafted artwork by leading science illustrator Dennis Tasa. The 14th Edition includes a new, easier-to-navigate design, and a more student-oriented approach that provides a clear learning path throughout the text. New pedagogical improvements, including pull quotes that act as guideposts, end-of-chapter questions and problems, and online exercises and activities, are available in Mastering(tm) Meteorology to help students understand the processes that control our weather and apply this information in their daily lives. Also available with Mastering Meteorology Mastering(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools developed to engage students and emulate the office-hour experience, Mastering personalizes learning and often improves results for each student. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. NOTE: You are purchasing a standalone product; Mastering(tm) Geography does not come packaged with this content. Students, if interested in purchasing this title with Mastering Geography, ask your instructor to confirm the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the loose-leaf version of the text and Mastering Geography, search for: 0134800842 / 9780134800844 Atmosphere, The: An Introduction to Meteorology, Books a la Carte Plus MasteringMeteorology with Pearson eText -- Access Card Package, 14/e

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Designed to accompany Lutgens and Tarbuck's The Atmosphere (7th ed), this laboratory manual features exercises that help students review theoretical concepts through problem solving, simulation and guided thinking.

This book is unique in bringing together the diverse concepts and ideas of meteorologists, atmospheric physicists and oceanographers into a single coherent account of the fluid environment, with emphasis on their physical properties and inter-dependence rather than on the mathematics. It provides an up-to-date appreciation of the subject area with reference to major research programmes in Oceanography and Meteorology, and an invaluable combined perspective for undergraduates who tend to compartmentalise themselves. It also shows the way the subject is currently developing and suggests possible future research.

Gravity waves exist in all types of geophysical fluids, such as lakes, oceans, and atmospheres. They play an important role in redistributing energy at disturbances, such as mountains or seamounts and they are routinely studied in meteorology and oceanography, particularly simulation models, atmospheric weather models, turbulence, air pollution, and climate research. An Introduction to Atmospheric Gravity Waves provides readers with a working background of the fundamental physics and mathematics of gravity waves, and introduces a wide variety of applications and numerous recent advances. Nappo provides a concise volume on gravity waves with a lucid discussion of current observational techniques and instrumentation. Foreword is written by Prof. George Chimonas, a renowned expert on the interactions of gravity waves with turbulence. CD containing real data, computer codes for data analysis and linear gravity wave models included with the text

Fundamentals of radiation for atmospheric applications -- Solar radiation at the top of the atmosphere -- Absorption and scattering of solar radiation in the atmosphere -- Thermal infrared radiation transfer in the atmosphere -- Light scattering by atmospheric particulates -- Principles of radiative transfer in planetary atmospheres -- Application of radiative transfer principles to remote sensing -- Radiation and climate.

This is a graduate-level textbook on the global circulation of the Earth's atmosphere—the large-scale system of winds by which energy is transported around the planet, from the tropical latitudes to the poles. Written by David Randall, one of the world's foremost experts on the subject, it is the most comprehensive textbook on the topic. Intended for Earth science students who have completed some graduate-level coursework in atmospheric dynamics, the book will help students build on that foundation, preparing them for research in the field. The book describes the many phenomena of the circulation and explains them in terms of current ideas from fluid dynamics and thermodynamics, with frequent use of isentropic coordinates and using the methods of vector calculus. It emphasizes the key roles of water vapor and clouds, includes detailed coverage of energy flows and transformations, and pays close attention to scale interactions. The book also describes the major historical contributions of key scientists, giving a human dimension to the narrative, and it closes with a discussion of how the global circulation is evolving as the Earth's climate changes. The most comprehensive graduate-level textbook on the subject
Written by one of the world's leading experts
Connects global circulation and climate phenomena
Addresses energy, moisture, and angular-momentum balance; the hydrologic cycle; and atmospheric turbulence and convection
Emphasizes the energy cycle of the atmosphere; the role of moist processes; and circulation as an unpredictable, chaotic process
Helps prepare students for research
An online illustration package is available to professors

Our Amazing Atmosphere: An Introduction to Weather and Climate provides students with a comprehensive exploration of the earth's atmosphere. The text places special emphasis on relationships between fundamental variables, such as temperature, pressure, winds, and moisture, and how these variables underlie atmospheric phenomena. This approach allows students to acquire a unified and holistic understanding of the atmosphere. The text begins with chapters covering the basic anatomy of the atmosphere and various influences that govern its behavior. Subsequent chapters explore cloud types and precipitation, along with different types of weather systems, such as thunderstorms, mid-latitude low cyclones, and hurricanes. The book includes a detailed description on how weather forecasts are made and a thorough presentation of weather and climate anomalies, as exemplified by El Nino. Students learn how anomalies like El Nino influence long-term weather worldwide, providing them with a glimpse of the interdependence of the atmosphere and other components of the Earth system. The final chapter addresses the all-important issue of climate change, with emphasis on its scientific basis, using concepts introduced in previous chapters. In providing students with foundational knowledge on weather, climate, and atmosphere, Our Amazing Atmosphere is suitable for introductory courses in geology, geosciences, physics, climatology, or any course that studies climate change. Eugene Robl has a Ph.D. in meteorology from the University of Utah, M.S. in physics from Missouri University of Science and Technology, and B.A. in physics from Loyola-Marymount University. He is an instructor in the Department of Atmospheric Sciences at the University of Utah as well as an adjunct professor at Westminster College of Salt Lake City, where he has taught courses in meteorology, astronomy, chemistry, and physics.

An essential primer on atmospheric processes and their important role in the climate system The atmosphere is critical to climate change. It can amplify shifts in the climate system, and also mitigate them. This primer offers a short, reader-friendly introduction to these atmospheric processes and how they work, written by a leading expert on the subject. Giving readers an overview of key atmospheric processes, David Randall looks at how our climate system receives energy from the sun and sheds it by emitting infrared radiation back into space. The atmosphere regulates these radiative energy flows and transports energy through weather systems such as thunderstorms, monsoons, hurricanes, and winter storms. Randall explains how these processes work, and also how precipitation, cloud formation, and other phase changes of water strongly influence weather and climate. He discusses how atmospheric feedbacks affect climate change, how the large-scale atmospheric circulation works, how predicting the weather and the climate are fundamentally different challenges, and much more. This is the ideal introduction for students and nonspecialists. No prior experience in atmospheric science is needed, only basic college physics. Authoritative and concise, Atmosphere, Clouds, and Climate features a glossary of terms, suggestions for further reading, and easy-to-follow explanations of a few key equations. This accessible primer is the essential introduction to atmospheric processes and the vital role they play in our climate system.

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