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Atmospheric Radiation [3 credits] [ATM Phys-Program] This course introduces the student to formal radiative transfer theory, which is quickly simplified for application to Earth's atmosphere. The physical processes, which contribute to absorption and scattering in Earth's atmosphere, are examined.

PHYS 721: Atmospheric Radiative Transfer

Atmospheric Radiation, Grant W. Petty, Sound Publishing, Medison, 2006. Предавања: Теоријска обрада тематских јединица Практична настава: Практични примери — рачунски задаци

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RRTM longwave radiation an Dudhia shortwave Moderate Resolution Imaging Spectroradiometer (MODIS) MODIS is a key instrument aboard the Terra (EOS AM) and Aqua (EOS PM) satellites. Terra's orbit around the Earth is timed so that it passes from north to south across the equator in the morning, while Aqua passes south to north over the equator in ...

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Atmospheric Research and by NASA through grant NAG53135 to the. State University of New York at Stony Brook. References. ... As part of the Atmospheric Radiation Measurement (ARM) Enhanced ...

An textbook for advanced undergraduate and graduate atmospheric science and meteorology students. Although this book addresses a technically and mathematically demanding subject, the writing style is designed to be engaging and accessible for students requiring a basic foundation in atmospheric physics.

This textbook is a first-look at radiative transfer in planetary atmospheres with a particular focus on the Earth's atmosphere and climate. It covers the basics of the radiative transfer of sunlight, treating absorption and scattering, and the transfer of the thermal infrared. The examples included show how the solutions of the radiative transfer equation are used to evaluate changes in the Earth's energy budget due to changes in atmospheric composition, how these changes lead to climate change, and also how remote sensing can be used to probe the thermal structure and composition of planetary atmospheres. The examples motivate students by leading them to a better understanding of and appreciation for the computer-generated numerical results. Aimed at upper-division undergraduates and beginning graduate students in physics and atmospheric sciences, the book is designed to cover the essence of the material in a 10-week course, while the material in the optional sections will facilitate its use at the more leisurely pace and in-depth focus of a semester course.

This textbook is written for meteorology majors who require an initial introduction to the physical properties of the atmosphere and to the essential principles and real-world applications of atmospheric thermodynamics. These topics are supplemented by a sampling of techniques and technologies related to atmospheric measurements and observations. A unique tutorial, included as an appendix, teaches students how to attack physical problems symbolically, deferring numerical calculations until the final step in the solution. The author's overall objectives include not only covering the traditional core subject matter of an undergraduate thermodynamics course but also facilitating students' transition from a

purely abstract understanding of calculus and physics concepts to the confident application of both to the science of meteorology.

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

Climatology is, to a large degree, the study of the statistics of our climate. The powerful tools of mathematical statistics therefore find wide application in climatological research. The purpose of this book is to help the climatologist understand the basic precepts of the statistician's art and to provide some of the background needed to apply statistical methodology correctly and usefully. The book is self contained: introductory material, standard advanced techniques, and the specialised techniques used specifically by climatologists are all contained within this one source. There are a wealth of real-world examples drawn from the climate literature to demonstrate the need, power and pitfalls of statistical analysis in climate research. Suitable for graduate courses on statistics for climatic, atmospheric and oceanic science, this book will also be valuable as a reference source for researchers in climatology, meteorology, atmospheric science, and oceanography.

Covers essential parts of cloud and precipitation physics and has been extensively rewritten with over 60 new illustrations and many new and up to date references. Many current topics are covered such as mesoscale meteorology, radar cloud studies and numerical cloud modelling, and topics from the second edition, such as severe storms, precipitation processes and large scale aspects of cloud physics, have been revised. Problems are included as examples and to supplement the text.

A concise introduction to climate system dynamics Climate Dynamics is an advanced undergraduate-level textbook that provides an essential foundation in the physical understanding of the earth's climate system. The book assumes no background in atmospheric or ocean sciences and is appropriate for any science or engineering student who has completed two semesters of calculus and one semester of calculus-based physics. Describing the climate system based on observations of the mean climate state and its variability, the first section of the book introduces the vocabulary of the field, the dependent variables that characterize the climate system, and the typical approaches taken to display these variables. The second section of the book gives a quantitative understanding of the processes that determine the climate state—radiation, heat balances, and the basics of fluid dynamics. Applications for the atmosphere, ocean, and hydrological cycle are developed in the next section, and the last three chapters of the book directly address global climate change. Throughout, the textbook makes connections between mathematics and physics in order to illustrate the usefulness of mathematics, particularly first-year calculus, for predicting changes in the physical world. Climate change will impact every aspect of life in the coming decades. This book supports and broadens understanding of the dynamics of the climate system by offering a much-needed introduction that is accessible to any science, math, or engineering student. Makes a physically based, quantitative understanding of climate change accessible to all science, engineering, and mathematics undergraduates Explains how the climate system works and why the climate is changing Reinforces, applies, and connects the basic ideas of calculus and physics Emphasizes fundamental observations and understanding An online illustration package and solutions manual for professors is available

#1 NEW YORK TIMES BEST SELLER • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

Atmospheric chemistry is one of the fastest growing fields in the earth sciences. Until now, however, there has been no book designed to help students capture the essence of the subject in a brief course of study. Daniel Jacob, a leading researcher and teacher in the field, addresses that problem by presenting the first textbook on atmospheric chemistry for a one-semester course. Based on the approach he developed in his class at Harvard, Jacob introduces students in clear and concise chapters to the fundamentals as well as the latest ideas and findings in the field. Jacob's aim is to show students how to use basic principles of physics and chemistry to describe a complex system such as the atmosphere. He also seeks to give students an overview of the current state of research and the work that led to this point. Jacob begins with atmospheric structure, design of simple models, atmospheric transport, and the continuity equation, and continues with geochemical cycles, the greenhouse effect, aerosols, stratospheric ozone, the oxidizing power of the atmosphere, smog, and acid rain. Each chapter concludes with a problem set based on recent scientific literature. This is a novel approach to

problem-set writing, and one that successfully introduces students to the prevailing issues. This is a major contribution to a growing area of study and will be welcomed enthusiastically by students and teachers alike.

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