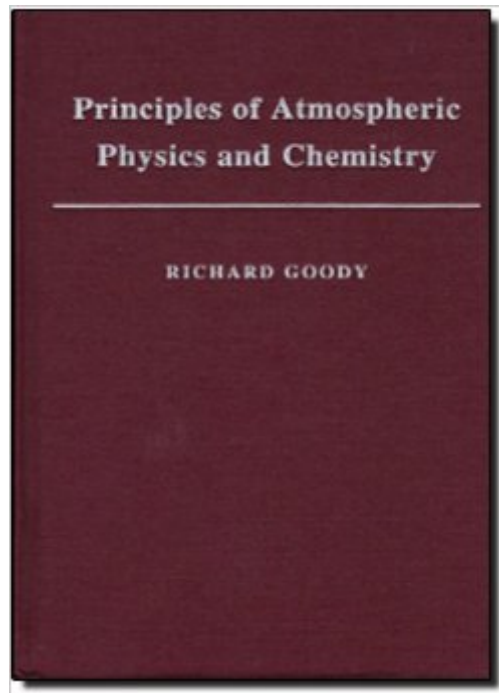


The book was found

# Principles Of Atmospheric Physics And Chemistry



## Synopsis

This comprehensive text outlines the principles underlying our current knowledge of the physics and chemistry of the lower and middle atmospheres. Written to allow a physics or chemistry major without prior knowledge of atmospheric science to enter the subject at a fairly advanced level, it includes an introduction which outlines the subject from the formation of the solar system to the state of the atmosphere at present. The thermodynamics of an atmosphere in local thermodynamic equilibrium is treated systematically, and the fundamental radiative processes of scattering and absorption are discussed in two chapters. The issue of climate change is considered in terms of simple models, and the concepts underlying atmospheric chemistry are discussed in terms of the ozone problem and three topics concerning the lower atmosphere: the oxidants, the chemistry of sulfur, and the atmospheric carbon cycle. Two final chapters discuss the physics of clouds and precipitation and many aspects of the behavior of the earth's boundary layer. Several appendices deal with climate data and background material, such as the Navier-Stokes equations. Problem sets enhance the value of each chapter. All aspects of the lower and middle atmospheres, except for large-scale dynamics, are treated in a connected account as ultimate consequences of the solar radiation falling on the planet.

## Book Information

Hardcover: 336 pages

Publisher: Oxford University Press (December 28, 1995)

Language: English

ISBN-10: 0195093623

ISBN-13: 978-0195093629

Product Dimensions: 9.5 x 1.1 x 6.4 inches

Shipping Weight: 1.3 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,186,646 in Books (See Top 100 in Books) #27 in Books > Science & Math > Chemistry > Nuclear Chemistry #181 in Books > Science & Math > Physics > Applied #1067 in Books > Science & Math > Earth Sciences > Rivers

[Download to continue reading...](#)

Principles of Atmospheric Physics and Chemistry Clouds in a Glass of Beer: Simple Experiments in Atmospheric Physics Atmospheric Chemistry: RSC The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Ace

General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Foye's Principles of Medicinal Chemistry (Lemke, Foye's Principles of Medicinal Chemistry) Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Atmospheric Radar: Application and Science of MST Radars in the Earth's Mesosphere, Stratosphere, Troposphere, and Weakly Ionized Regions Ace General Chemistry I: The EASY Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Satellite Communications Systems Engineering: Atmospheric Effects, Satellite Link Design and System Performance Atmospheric Monitoring with Arduino: Building Simple Devices to Collect Data About the Environment Statistical Methods in the Atmospheric Sciences, Volume 100, Third Edition (International Geophysics) Problems and Solutions in Quantum Chemistry and Physics (Dover Books on Chemistry) Neither Physics nor Chemistry: A History of Quantum Chemistry (Transformations: Studies in the History of Science and Technology) The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents) Principles of Polymer Chemistry (The George Fisher Baker Non-Resident Lectureship in Chemistry at Cornell University) Principles of Chemistry: A Molecular Approach Plus MasteringChemistry with eText -- Access Card Package (3rd Edition) (New Chemistry Titles from Niva Tro) The Physics and Philosophy of the Bible: How Relativity, Quantum Physics, Plato, and History Meld with Biblical Theology to Show That God Exists and That ... Live Forever (The Inevitable Truth Book 1) Light Science: Physics and the Visual Arts (Undergraduate Texts in Contemporary Physics)

[Dmca](#)