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Product Description

Review

"Liou's book is broad and rigorous. It covers the topics well from fundamental principles to applications. A student who has mastered the book will be well prepared to start research in atmospheric radiation. A research worker who needs a quick review of the basic physics behind the state-of-the-art radiative codes used in climate models and remote sensing will find this an invaluable resource."

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-Alexander Marshak, NASA Goddard Space Flight Center, Bulletin of the American Meteorological Society

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Joanna Haigh, Space and Atmospheric Physics, The Blackett Laboratory, Imperial College, London, UK

Product Description

This Second Edition of **An Introduction to Atmospheric Radiation** has been extensively revised to address the fundamental study and quantitative measurement of the interactions of solar and terrestrial radiation with molecules, aerosols, and cloud particles in planetary atmospheres. It contains 70% new material, much of it stemming from the investigation of the atmospheric greenhouse effects of external radiative perturbations in climate systems, and the development of methodologies for inferring atmospheric and surface parameters by means of remote sensing. Liou's comprehensive treatment of the fundamentals of atmospheric radiation was developed for students, academics, and researchers in atmospheric sciences, remote sensing, and climate modeling.

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