

An Introduction to Atmospheric Radiation

SECOND
EDITION

K. N. LIOU

University of California, Los Angeles

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.

Features


- Balanced treatment of fundamentals and applications
- Includes over 170 illustrations to complement the concise description of each subject
- Numerous examples and hands-on exercises at the end of each chapter

About the Author

Dr. K. N. Liou is Professor of Atmospheric Sciences at the University of California, Los Angeles. He is a member of the National Academy of Engineering and Fellow of AAAS, AGU, AMS, and the Optical Society of America. Professor Liou received the Jule G. Charney Award from AMS in 1998 "for his pioneering work in the theory and application of radiative transfer and its interaction with clouds."

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