

An Introduction to Atmospheric Radiation (International Geophysics)

By K. N. Liou

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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.

- 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

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Editorial Review

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." **--Yuk L. Yung, Quarterly Journal of the Royal Meteorological Society**

"The many differences between [the first and second] editions illustrate areas of major progress in the field, as is evidenced in thermal infrared radiative transfer and even in the creations of completely new fields like three-dimensional radiative transfer or light scattering by nonspherical particles. Obviously, the major changes happened not in the theory...but in data quality and completely new measurements (mostly due to new satellite data) with higher accuracy and more reliability. The new edition illustrates this progress well." **--Alexander Marshak, NASA Goddard Space Flight Center, Bulletin of the American Meteorological Society**

"The First Edition of this book has become a standard (advanced) text for graduate students and researchers working in the area of atmospheric radiative transfer ...Professor Liou has a leading international standing in studies of the interaction of solar radiation with the Earth's atmosphere and his book reflects his expertise in that area." --**Joanna Haigh, Space and Atmospheric Physics, The Blackett Laboratory, Imperial College, London, UK**

From the Back Cover

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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."

About the Author

K. N. Liou is professor and chair of the Department of Atmospheric Sciences at the University of California, Los Angeles. He was awarded the Jule G. Charney Award from the American Meteorological Society in 1998 for his "pioneering work in the theory and application of radiative transport and its interaction with clouds". Liou is author or co-author of more than 140 scientific papers and 2 previous books.

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