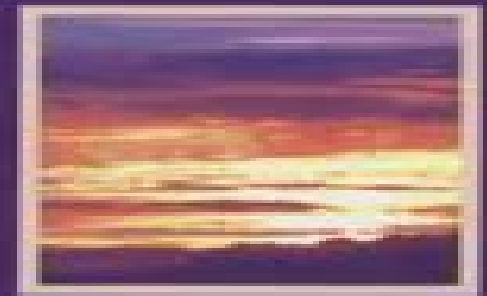
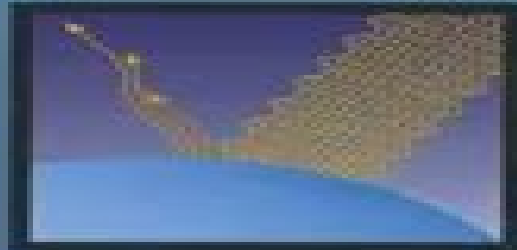


An Introduction to Atmospheric Radiation

SECOND
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K. N. LIOU



INTERNATIONAL GEOPHYSICS SERIES, VOLUME 54



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Fast Processes in Large-Scale Atmospheric Models Yangang Liu,Pavlos Kollias,2023-12-19 Improving weather and climate prediction with better representation of fast processes in atmospheric models Many atmospheric processes that influence Earth s weather and climate occur at spatiotemporal scales that are too small to be resolved in large scale models They must be parameterized which means approximately representing them by variables that can be resolved by model grids *Fast Processes in Large Scale Atmospheric Models Progress Challenges and Opportunities* explores ways to better investigate and represent multiple parameterized processes in models and thus improve their ability to make accurate climate and weather predictions Volume highlights include Historical development of the parameterization of fast processes in numerical models Different types of major sub grid processes and their parameterizations Efforts to unify the treatment of individual processes and their interactions Top down versus bottom up approaches across multiple scales Measurement techniques observational studies and frameworks for model evaluation Emerging challenges new opportunities and future research directions The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Springer Series in Light Scattering Alexander Kokhanovsky,2020-02-21 This book reviews the spaceborne and airborne remote sensing of clouds including cloud lidar and radar data analysis snow and soil reflectance spectroscopy and single light scattering by nonspherical scatterers Providing deep insights into the latest technologies it is a valuable resource for scientists and postgraduate students alike

Visible Infrared Imager Radiometer Suite Keith D. Hutchison,Arthur P. Cracknell,2016-04-19 The Visible Infrared Imager Radiometer Suite VIIRS is the next generation multispectral imaging instrument to fly on US operational polar orbiting meteorological satellites VIIRS will gather data

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Light Scattering by Nonspherical Particles Michael I. Mishchenko, Joachim W. Hovenier, Larry D. Travis, 1999-09-22

There is hardly a field of science or engineering that does not have some interest in light scattering by small particles. For example, this subject is important to climatology because the energy budget for the Earth's atmosphere is strongly affected by scattering of solar radiation by cloud and aerosol particles, and the whole discipline of remote sensing relies largely on analyzing the parameters of radiation scattered by aerosols, clouds, and precipitation. The scattering of light by spherical particles can be easily computed using the conventional Mie theory. However, most small solid particles encountered in natural and laboratory conditions have nonspherical shapes. Examples are soot and mineral aerosols, cirrus cloud particles, snow and frost crystals, ocean hydrosols, interplanetary and cometary dust grains, and microorganisms. It is now well known that scattering properties of nonspherical particles can differ dramatically from those of equivalent (e.g., equal volume or equal surface area) spheres. Therefore, the ability to accurately compute or measure light scattering by nonspherical particles in order to clearly understand the effects of particle nonsphericity on light scattering is very important. The rapid improvement of computers and experimental techniques over the past 20 years and the development of efficient numerical approaches have resulted in major advances in this field, which have not been systematically summarized. Because of the universal importance of electromagnetic scattering by nonspherical particles, papers on different aspects of this subject are scattered over dozens of diverse research and engineering journals. Often experts in one discipline (e.g., biology) are unaware of potentially useful results obtained in another discipline (e.g., antennas and propagation). This leads to an inefficient use of the accumulated knowledge and unnecessary redundancy in research activities. This book offers the first systematic and unified discussion of light scattering by nonspherical particles and its practical applications and represents the state of the art of this important research field. Individual chapters are written by leading experts in respective areas and cover three major disciplines: theoretical and numerical techniques, laboratory measurements, and practical applications. An overview chapter provides a concise general introduction to the subject of nonspherical scattering and should be especially useful to beginners and those interested in fast practical applications. The audience for this book will include graduate students, scientists, and engineers working on specific aspects of electromagnetic scattering by small particles and its applications in remote sensing, geophysics, astrophysics, biomedical optics, and optical engineering. The first systematic and comprehensive treatment of electromagnetic scattering by nonspherical particles and its applications. Individual chapters are written by leading experts in respective areas. Includes a survey of all the relevant literature scattered over dozens of basic and applied research journals. Consistent use of unified definitions and notation makes the book a coherent volume. An overview chapter provides a concise general introduction to the subject of light scattering by nonspherical particles. Theoretical chapters describe specific, easy-to-use computer codes publicly available on

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