

Radiation Transfer

Statistical and Wave Aspects

L.A. Apresyan
Yu.A. Kravtsov



CRC Press
Taylor & Francis Group

Radiation Transfer Statistical And Wave Aspects

Rémi Carminati, John C. Schotland



Radiation Transfer Statistical And Wave Aspects:

Radiation Transfer Apresyan, 2019-07-16 The authors expound on non traditional phenomena for transfer theory which are nevertheless of considerable interest in wave measurements and bring the advances of transfer theory as close as possible to the practical needs of those working in all areas of wave physics The book opens with a historical overview of the topic then moves on to examine the phenomenological theory of radiative transport blending traditional theory with original ideas The transport equation is derived from first principles and the ensuing discussion of the diffraction content of the transport equation and non classical radiometry is illustrated by practical examples from various fields of physics Popular techniques of solving the transport equation are discussed paying particular attention to wave physics and computing the coherence function The book also examines various problems which are no longer covered by the traditional radiative transfer theory such as enhanced backscattering and weak localization phenomena nonlinear transport problems and kinetic equations for waves This monograph bridges the gap between the simple power balance description in radiative transfer theory and modern coherence theory It will be of interest to researchers and professionals working across a wide range of fields from optics acoustics and radar theory to astrophysics radioastronomy and remote sensing as well as to students in these areas

Analytical Methods in Radiative Transfer Alexander Kokhanovsky, Vijay Natraj, Dmitry Efremenko, 2025-11-24 Provides in depth knowledge of the physics of radiative transfer In *Analytical Methods in Radiative Transfer* a team of distinguished researchers delivers a comprehensive exploration of solutions to practical problems of modern atmospheric optics related to solar light interaction with the terrestrial atmosphere and the remote sensing of clouds aerosols and gases The authors describe analytic methods in radiative transfer that help explain atmospheric phenomena The book includes discussions on the interaction of solar light with the atmosphere Readers will also benefit from thorough reviews of various analytical radiative transfer techniques for various turbid media including media with phase functions extended in the forward direction and also semi infinite non absorbing weakly absorbing and strongly absorbing light scattering media *Analytical Methods in Radiative Transfer* also includes A thorough introduction to exact solutions of the radiative transfer equation including situations of single scattering as well as isotropic and Rayleigh scattering A comprehensive exploration of approximate solutions for scalar radiative transfer including single and multiple light scattering separation and the case of semi infinite media such as snow In depth examinations of the applications of analytical methods in atmospheric radiative transfer including aerosol remote sensing cloud remote sensing and the remote sensing of trace gases Perfect for meteorologists climatologists and graduate students studying physics *Analytical Methods in Radiative Transfer* is also an indispensable resource for geophysicists seeking a practical exploration of modern atmospheric optics

[Springer Series in Light Scattering](#) Alexander Kokhanovsky, 2017-12-22 This book presents a survey of modern theoretical and experimental techniques in studies of light scattering phenomena and radiative transfer processes in random media It presents reviews on

light scattering by sea water and bubbles and includes a separate chapter addressing studies of the remote sensing of crystalline clouds with a focus on the shape of particles a parameter rarely studied by passive remote sensing techniques In particular it offers a comprehensive analysis of polarized radiative transfer in optically active e g chiral light scattering media and explores advances in spectro polarimetry of particulate media Lastly it discusses new developments in light scattering for combustion monitoring

Optical Remote Sensing of Ocean Hydrodynamics Victor Raizer,2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean

Principles of Scattering and Transport of Light Rémi Carminati,John C. Schotland,2021-07-29 Light scattering is one of the most well studied phenomena in nature It occupies a central place in optical physics and plays a key role in multiple fields of science and engineering This volume presents a comprehensive introduction to the subject For the first time the authors bring together in a self contained and systematic manner the physical concepts and mathematical tools that are used in the modern theory of light scattering and transport presenting them in a clear accessible style The power of these tools is demonstrated by a framework that links various aspects of the subject scattering theory to radiative transport radiative transport to diffusion and field correlations to the statistics of speckle patterns For graduate students and researchers in optical physics and optical engineering this book is an invaluable resource on the interaction of light with complex media and the theory of light scattering in disordered and complex systems

Advances in Geophysics Haruo Sato,Michael Fehler,2009-02-26 Seismic waves generated by earthquakes have been interpreted to provide us information about the Earth s structure across a variety of scales For short periods of less than 1 second the envelope of seismograms changes significantly with increased travel distance and coda

waves are excited by scattering due to randomly distributed heterogeneities in the Earth Deterministic structures such as horizontally uniform velocity layer models in traditional seismology cannot explain these phenomena This book focuses on the Earth heterogeneity and scattering effects on seismic waves Topics covered are recent developments in wave theory and observation including coda wave analysis for mapping medium heterogeneity and monitoring temporal variation of physical properties radiation of short period seismic waves from an earthquake fault weak localization of seismic waves attenuation of seismic waves in randomly porous media synthesis of seismic wave envelopes in short periods and laboratory investigations of ultrasonic wave propagation in rock samples Understanding new methods for the analysis of short period seismic waves to characterize the random heterogeneity of the Earth on many scales Observations of seismic wave scattering Discussion of techniques for mapping medium heterogeneity and for monitoring temporal change in medium characteristics Up to date techniques for the synthesis of wave envelopes in random media **Remote Sensing of Turbulence** Victor

Raizer,2021-10-03 This book offers a unique multidisciplinary integration of the physics of turbulence and remote sensing technology Remote Sensing of Turbulence provides a new vision on the research of turbulence and summarizes the current and future challenges of monitoring turbulence remotely The book emphasizes sophisticated geophysical applications detection and recognition of complex turbulent flows in oceans and the atmosphere Through several techniques based on microwave and optical IR observations the text explores the technological capabilities and tools for the detection of turbulence their signatures and variability FEATURES Covers the fundamental aspects of turbulence problems with a broad geophysical scope for a wide audience of readers Provides a complete description of remote sensing capabilities for observing turbulence in the earth s environment Establishes the state of the art remote sensing techniques and methods of data analysis for turbulence detection Investigates and evaluates turbulence detection signatures their properties and variability Provides cutting edge remote sensing applications for space based monitoring and forecasts of turbulence in oceans and the atmosphere This book is a great resource for applied physicists the professional remote sensing community ecologists geophysicists and earth scientists **Electromagnetic Scattering by Particles and Particle Groups** Michael

I. Mishchenko,2014-04-24 This self contained and accessible book provides a thorough introduction to the basic physical and mathematical principles required in studying the scattering and absorption of light and other electromagnetic radiation by particles and particle groups For the first time the theories of electromagnetic scattering radiative transfer and weak localization are combined into a unified consistent branch of physical optics directly based on the Maxwell equations A particular focus is given to key aspects such as time and ensemble averaging at different scales ergodicity and the physical nature of measurements afforded by actual photopolarimeters Featuring over 120 end of chapter exercises with hints and solutions provided this clear one stop resource is ideal for self study or classroom use and will be invaluable to both graduate students and researchers in remote sensing physical and biomedical optics optical communications optical particle

characterization atmospheric physics and astrophysics **New Directions in Linear Acoustics and Vibration** Matthew Wright, Richard Weaver, 2010-07-26 Linear acoustics was thought to be fully encapsulated in physics texts of the 1950s but this view has been changed by developments in physics during the last four decades There is a significant new amount of theory that can be used to address problems in linear acoustics and vibration but only a small amount of reported work does so This book is an attempt to bridge the gap between theoreticians and practitioners as well as the gap between quantum and acoustic Tutorial chapters provide introductions to each of the major aspects of the physical theory and are written using the appropriate terminology of the acoustical community The book will act as a quick start guide to the new methods while providing a wide ranging introduction to the physical concepts *Foundations of Atmospheric Remote Sensing* Dmitry Efremenko, Alexander Kokhanovsky, 2021-05-18 Theoretical foundations of atmospheric remote sensing are electromagnetic theory radiative transfer and inversion theory This book provides an overview of these topics in a common context compile the results of recent research as well as fill the gaps where needed The following aspects are covered principles of remote sensing the atmospheric physics foundations of the radiative transfer theory electromagnetic absorption scattering and propagation review of computational techniques in radiative transfer retrieval techniques as well as regularization principles of inversion theory As such the book provides a valuable resource for those who work with remote sensing data and want to get a broad view of theoretical foundations of atmospheric remote sensing The book will be also useful for students and researchers working in such diverse fields like inverse problems atmospheric physics electromagnetic theory and radiative transfer

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