

# **Radiative Transfer in Moving Media**

Basic Mathematical Methods  
for Radiative Transfer  
in Spherically Symmetrical Moving Media



Springer

K. K. Sen and S. J. Wilson

# Methods In Radiative Transfer

**C. Berthon, Jean-François Coulombel**



## Methods In Radiative Transfer:

**Methods in Radiative Transfer** Wolfgang Kalkofen, 1984-04-26

**Analytical Methods in Radiative Transfer**

Alexander Kokhanovsky, Vijay Natraj, Dmitry Efremenko, 2025-09-04 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

*Radiative Transfer in Moving Media* K.K. Sen, S.J. Wilson, 1998-06 The advancement of observational techniques has led to the discovery of a large number of stars exhibiting complex spectral structures This necessitates the search for new methods to study the radiative transfer in such stars This book presents mathematical methodologies developed for solving radiation transfer problems in moving media and stellar atmospheres

*Radiative Transfer In Curved Media* K K Sen, S J Wilson, 1990-02-01 Most of the methods described in this book can be used with cosmetic modifications to solve transfer problems of greater complexity All attempts have been made to make the book self contained

*Numerical Methods in Multidimensional Radiative Transfer* Guido Kanschat, Erik Meinköhn, Rolf Rannacher, Rainer Wehrse, 2008-12-24 Traditionally radiative transfer has been the domain of astrophysicists and climatologists In nuclear technology one has been dealing with the analogous equations of neutron transport In recent years applications of radiative transfer in combustion machine design and in medicine became more and more important In all these disciplines one uses the radiative transfer equation to model the formation of the radiation field and its propagation For slabs and spheres effective algorithms for the solution of the transfer equation have been available for quite some time In addition the analysis of the equation is quite well developed Unfortunately in many modern applications the approximation of a 1D geometry is no longer adequate and one has to consider the full 3D dependencies This makes the modeling immensely more

intricate The main reasons for the difficulties result from the fact that not only the dimension of the geometric space has to be increased but one also has to employ two angle variables instead of one and very often one has to consider frequency coupling due to motion or redistribution in spectral lines In actual calculations this leads to extremely large matrices which in addition are usually badly conditioned and therefore require special care Analytical solutions are not available except for very special cases Although radiative transfer problems are interesting also from a mathematical point of view mathematicians have largely neglected the transfer equation for a long time

#### **Moment Methods for Radiative Transfer** Matthias

Schäfer, 2008 Radiative Transfer Hélène Frisch, 2022-05-26 This book discusses analytic and asymptotic methods relevant to radiative transfer in dilute media such as stellar and planetary atmospheres Several methods providing exact expressions for the radiation field in a semi infinite atmosphere are described in detail and applied to unpolarized and polarized continuous spectra and spectral lines Among these methods the Wiener Hopf method introduced in 1931 for a stellar atmospheric problem is used today in fields such as solid mechanics diffraction theory or mathematical finance Asymptotic analyses are carried out on unpolarized and polarized radiative transfer equations and on a discrete time random walk Applicable when photons undergo a large number of scatterings they provide criteria to distinguish between large scale diffusive and non diffusive behaviors typical scales of variation of the radiation field such as the thermalization length and specific descriptions for regions close and far from boundaries Its well organized synthetic view of exact and asymptotic methods of radiative transfer makes this book a valuable resource for both graduate students and professional scientists in astrophysics and beyond

#### **Numerical Solution Methods for Radiative Transfer in Semitransparent Media** Frank

Zingsheim, 1999 **ANALYTICAL METHODS IN RADIATIVE TRANSFER THEORY.** D. I Nagirner, 2006 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

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*Applied Mechanics Reviews*, 1975 **Radiative Transfer in Coupled Environmental Systems** Knut Stamnes, Jakob J. Stamnes, 2016-03-18 Radiative Transfer in Coupled Environmental Systems This book discusses radiative transfer in coupled media such as atmosphere ocean systems with Lambertian as well non Lambertian reflecting surfaces at the lower boundary The spectral range from the ultraviolet to the microwave region of the electromagnetic spectrum is considered and multi spectral as well as hyperspectral remote sensing is discussed Solutions of the forward problem for unpolarized and polarized radiation are discussed in considerable detail but what makes this book unique is that formulations and solutions of the inverse problem related to such coupled media are covered in a comprehensive and systematic manner This book teaches the reader how to formulate and solve forward and inverse problems related to coupled media and gives examples of how to solve concrete problems in environmental remote sensing of coupled atmosphere surface systems From the contents Inherent Optical Properties IOPs Basic Radiative Transfer Theory Forward Radiative Transfer Modeling The Inverse Problem Applications Radiative Transfer in Stellar and Planetary Atmospheres Lucio Crivellari, Sergio Simón-Díaz, María Jesús Arévalo, 2020-01-09 Radiative transfer is essential for obtaining information from the spectra of astrophysical objects This volume provides an overview of the physical and mathematical background of radiative transfer and its applications to stellar and planetary atmospheres It covers the phenomenology and physics of early type and late type stars as well as ultra cool dwarf stars and extrasolar planets Importantly it provides a bridge between classical radiative transfer and stellar atmosphere modelling and novel approaches from both theoretical and computational standpoints With new fields of application and a dramatic improvement in both observational and computational facilities it also discusses the future

outlook for the field Chapters are written by eminent researchers from across the astronomical disciplines where radiative transfer is employed Using the most recent observations this is a go to resource for graduate students and researchers in astrophysics

Computational Intelligence Applied to Inverse Problems in Radiative Transfer Antônio José da Silva Neto, José Carlos Becceneri, Haroldo Fraga de Campos Velho, 2023-12-12 This book offers a careful selection of studies in optimization techniques based on artificial intelligence applied to inverse problems in radiative transfer In this book the reader will find an in depth exploration of heuristic optimization methods each meticulously described and accompanied by historical context and natural process analogies From simulated annealing and genetic algorithms to artificial neural networks ant colony optimization and particle swarms this volume presents a wide range of heuristic methods Additional approaches such as generalized extreme optimization particle collision differential evolution Luus Jaakola and firefly algorithms are also discussed providing a rich repertoire of tools for tackling challenging problems While the applications showcased primarily focus on radiative transfer their potential extends to various domains particularly nonlinear and large scale problems where traditional deterministic methods fall short With clear and comprehensive presentations this book empowers readers to adapt each method to their specific needs Furthermore practical examples of classical optimization problems and application suggestions are included to enhance your understanding This book is suitable to any researcher or practitioner whose interests lie on optimization techniques based in artificial intelligence and bio inspired algorithms in fields like Applied Mathematics Engineering Computing and cross disciplinary areas

*Radiative Transfer in the Atmosphere and Ocean* Gary E. Thomas, Knut Stamnes, 2002-01-28 Provides a foundation of the theoretical and practical aspects of radiative transfer for the atmospheric oceanic and environmental sciences

*Radiative Transfer in Curved Media* K. K. Sen, S. J. Wilson, 1990 Most of the methods described in this book can be used with cosmetic modifications to solve transfer problems of greater complexity All attempts have been made to make the book self contained

**Light Scattering in Inhomogeneous Atmospheres** Edgard G. Yanovitskij, 2012-12-06 This book is aimed at studying the scattering of monochromatic radiation in plane inhomogeneous media We are dealing with the media whose optical properties depend on a single spatial coordinate namely of a depth The most widely known books on radiation transfer for instance 1 S Chandrasekhar *Radiative Transfer* Oxford Clarendon Press 1950 RT 2 V V Sobolev *Light Scattering in Planetary Atmospheres* New York Pergamon Press 1975 LSPA 3 H C van de Hulst *Multiple Light Scattering Tables Formulas and Applications* Vol 1 2 New York Academic Press 1980 MLS treat mainly the homogeneous atmospheres However as known the actual atmospheres of stars and planets basins of water and other artificial and natural media are not homogeneous This book deals with the model of vertically inhomogeneous atmosphere which is closer to reality than the homogeneous models This book is close to the aforementioned monographs in its scope of problems and style Therefore I guess that a preliminary knowledge of the contents of these books particularly of the book by Sobolev would facilitate the readers task substantially On the other hand

all concepts problems and equations used in this book are considered in full in Chap 1 So it will be possible for those readers who do not possess the above knowledge to understand this book A general idea about the content of the book can be gained from both the Introduction and the Table of Contents      *Lecture Notes on New Methods in Radiative Transfer* I. P. Grant, 1968

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