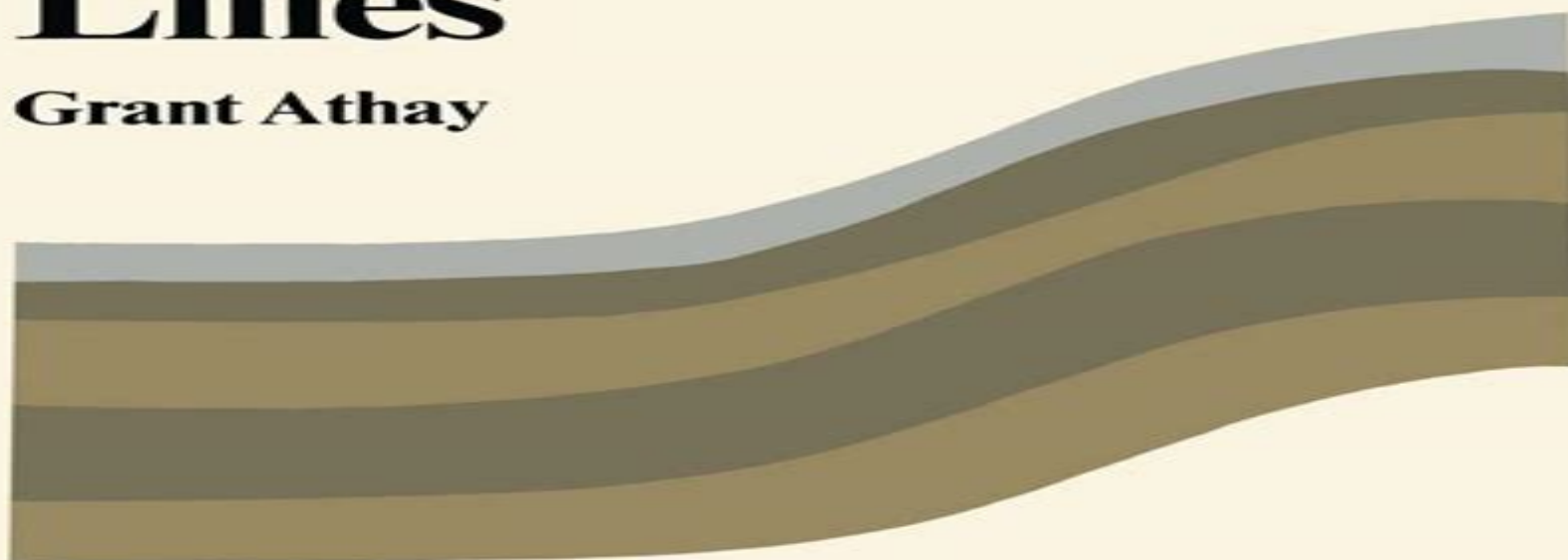


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Radiation Transport in Spectral Lines

Grant Athay



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Radiation Transport In Spectral Lines

R.G. Athay



Radiation Transport In Spectral Lines:

Radiation Transport in Spectral Lines R.G. Athay,1972-12-31 The usual book on the theory of spectral line formation begins with an in depth discussion of radiation transfer including the elegant methods of obtaining analytical solutions for special cases and of the physics of line broadening Neither of those features will be found in this book It is assumed that the reader is already familiar with the essentials of transport theory and of line broadening and is ready to investigate some of the particular applications of the theory to the flow of line photons through the outer layers of a star or other tenuous media The main thrust of this book is toward the compilation and presentation of a vast quantity of computational material available to the author in the form of computer output The material presented represents a highly filtered sample of the published work in this subject plus an extensive set of previously unpublished results To present large quantities of computer output in an intelligible and efficient way is a difficult task for which I have found no really satisfactory solution Chapters III and IV in particular contain almost exclusively this type of presentation The reader may find these chapters somewhat tedious because of the level of condensation of the material I have tried to reach a reasonable balance between over condensation and excessive detail which in the long run may be irrelevant

Transfer of Radiation in Spectral Lines Vsevolod Vladimirovich Ivanov,1973 Kinetic Theory of Particles and Photons Joachim Oxenius,2012-12-06 Many laboratory and astrophysical plasmas show deviations from local thermodynamic equilibrium LTE This monograph develops non LTE plasma spectroscopy as a kinetic theory of particles and photons considering the radiation field as a photon gas whose distribution function the radiation intensity obeys a kinetic equation the radiative transfer equation just as the distribution functions of particles obey kinetic equations Such a unified approach provides clear insight into the physics of non LTE plasmas Chapter 1 treats the principle of detailed balance of central importance for understanding the non LTE effects in plasmas Chapters 2 3 deal with kinetic equations of particles and photons respectively followed by a chapter on the fluid description of gases with radiative interactions Chapter 5 is devoted to the H theorem and closes the more general first part of the book The last two chapters deal with more specific topics After briefly discussing optically thin plasmas Chap 6 treats non LTE line transfer by two level atoms the line profile coefficients of three level atoms and non Maxwellian electron distribution functions Chapter 7 discusses topics where momentum exchange between matter and radiation is crucial the approach to thermal equilibrium through interaction with blackbody radiation radiative forces and Compton scattering A number of appendices have been added to make the book self contained and to treat more special questions In particular Appendix B contains an introductory discussion of atomic line profile coefficients

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1974 Handbook Of Radiative Heat Transfer In High-Temperature Gase R I Soloukhin,2000-07-20 Very Good No Highlights or Markup all pages are intact The Transfer of Spectral Line Radiation C. J. Cannon,2012-01-26 Originally published in 1985 this monograph describes the interaction of

radiation with plasma Using an approach that is particularly relevant to the interpretation of data from laboratory plasmas or stellar atmospheres the author sets out the physics and mathematics of the interaction of photons with atoms molecules ions and electrons The emphasis throughout is on relating the formal mathematics to the real world of observable properties and interpretation The equation of radiative transfer for a two level atom is solved exactly by two distinct methods Techniques for solving more realistic problems are then presented This leads to the main thrust of the book which gives a detailed analysis of the matter radiation interaction **NBS Special Publication** ,1968 *Scientific and Technical Aerospace Reports* ,1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **The Observation and Analysis of Stellar Photospheres** David F. Gray,2021-12-16 This textbook describes the equipment observational techniques and analysis used in the investigation of stellar photospheres Now in its fourth edition the text has been thoroughly updated and revised to be more accessible to students New figures have been added to illustrate key concepts while diagrams have been redrawn and refreshed throughout The book starts by developing the tools of analysis and then demonstrates how they can be applied Topics covered include radiation transfer models of stellar photospheres spectroscopic equipment how to observe stellar spectra and techniques for measuring stellar temperatures radii surface gravities chemical composition velocity fields and rotation rates Up to date results for real stars are included Written for starting graduate students or advanced undergraduates this textbook also includes a wealth of reference material useful to researchers eBook formats include color imagery while print formats are greyscale only a wide selection of the color images are available online **TRANSFER OF RADIATION IN SPECTRAL LINES** V. V. IVANOV,2018 **Foundations of High-Energy-Density Physics** Jon Larsen,2017-03-10 A valuable and complete resource that brings together many of the branches of physics needed in high energy density physics Targeted at research scientists and graduate students in physics and astrophysics this book begins with basic concepts and develops a detailed explanation of the physics of hydrodynamics and energy transport in plasma **Plasma Diagnostics** Orlando Auciello,Daniel L. Flamm,2013-10-22 Plasma Diagnostics Volume 1 Discharge Parameters and Chemistry covers seven chapters on the important diagnostic techniques for plasmas and details their use in particular applications The book discusses optical diagnostic techniques for low pressure plasmas and plasma processing plasma diagnostics for electrical discharge light sources as well as Langmuir probes The text also describes the mass spectroscopy of plasmas microwave diagnostics paramagnetic resonance diagnostics and diagnostics in thermal plasma processing Electrical engineers nuclear engineers microwave engineers chemists and technical personnel in universities industry and national laboratories will find the book invaluable [Electron Kinetics and Applications of Glow Discharges](#) Uwe Kortshagen,Lev D. Tsendin,1998-06-30 This book resulted from the NATO Advanced Research Workshop on Electron Kinetics and Applications of Glow Discharges held in St Petersburg Russia on May 19 23 1997 Glow discharges have

found widespread applications in many technological processes from the manufacture of semiconductors to recent developments in na technology to the traditional fields of gas lasers and discharge lamps Consequently the interest in the physics of glow discharges has experienced yet another resurgence of interest While the non equilibrium character of glow discharges is widely accepted the opinion still prevails that the main features can be captured by fluid models and that kinetic treatments are only required for the understanding of subtle details The erroneousness of this belief is demonstrated by the failure of fluid models to describe many basic features of glow discharges such as for instance electrode phenomena striations and collisionless heating effects An adequate description of glow discharges thus has to be of kinetic nature

Publications United States. National Bureau of Standards,1971 *Publications of the National Bureau of Standards, 1973 Catalog* United States. National Bureau of Standards,1974 *Publications of the National Bureau of Standards* United States. National Bureau of Standards,1970 Nuclear Science Abstracts ,1975 **Plasma Processes and Plasma**

Kinetics Boris M. Smirnov,2008-09-26 This problems supplement to plasma physics textbooks covers plasma theory for both science and technology Written by a renowned plasma scientist experienced book author and skilled teacher it treats all aspects of plasma theory in no fewer than 520 very detailed worked out problems With this systematic collection the reader will gain a sound understanding of plasma physics in all fields from fusion and astrophysics to surface treatment The book also includes the transport of particles as well as radiation in plasmas and while designed for graduate students and young researchers it can equally serve as a reference *Astronomy: A Physical Perspective* Marc L. Kutner,2003-07-31 This fully revised and updated text is a comprehensive introduction to astronomical objects and phenomena By applying some basic physical principles to a variety of situations students will learn how to relate everyday physics to the astronomical world Starting with the simplest objects the text contains explanations of how and why astronomical phenomena occur and how astronomers collect and interpret information about stars galaxies and the solar system The text looks at the properties of stars star formation and evolution neutron stars and black holes the nature of galaxies and the structure of the universe It examines the past present and future states of the universe and final chapters use the concepts that have been developed to study the solar system its formation the possibility of finding other planetary systems and the search for extraterrestrial life This comprehensive text contains useful equations chapter summaries worked examples and end of chapter problem sets

Predicting Radiative Heat Transfer in Thermochemical Nonequilibrium Flow Fields Lin Hartung Chambers,1994 Abstract The theory for radiation emission absorption and transfer in a thermochemical nonequilibrium flow is presented The expression developed reduce correctly to the limit at equilibrium To implement the theory in a practical computer code some approximations are used particularly the smearing of molecular radiation Details of these approximations are presented and helpful information is included concerning the use of the computer code This user s manual should benefit both occasional users of the Langley Optimized RAdiative Nonequilibrium LORAN code and those who wish to use it to experiment with

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