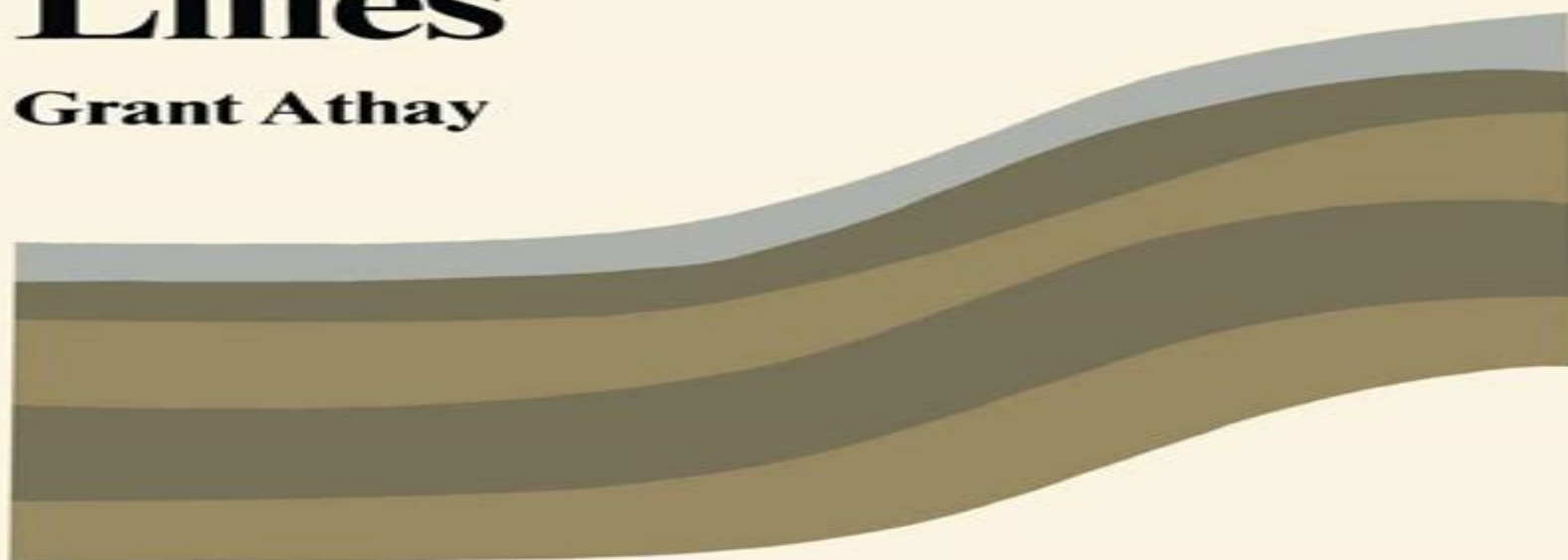


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David F. Gray



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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 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1974 *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 **NBS Special Publication** ,1968 **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 **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 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 **TRANSFER OF RADIATION IN SPECTRAL LINES** V. V. IVANOV,2018 *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 *Nuclear Science Abstracts* ,1975 Publications of the National Bureau of Standards United States. National Bureau of Standards,1970 **Publications of the National Bureau of Standards, 1973 Catalog** United States. National Bureau of Standards,1974 *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

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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 Publications United States. National Bureau of Standards,1971

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