



Stellar Atmospheres

Liyong Dong



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Theory of Stellar Atmospheres Ivan Hubeny, Dimitri Mihalas, 2014-10-26 The most authoritative synthesis of the quantitative spectroscopic analysis of stellar atmospheres This book provides an in depth and self contained treatment of the latest advances achieved in quantitative spectroscopic analyses of the observable outer layers of stars and similar objects Written by two leading researchers in the field it presents a comprehensive account of both the physical foundations and numerical methods of such analyses The book is ideal for astronomers who want to acquire deeper insight into the physical foundations of the theory of stellar atmospheres or who want to learn about modern computational techniques for treating radiative transfer in non equilibrium situations It can also serve as a rigorous yet accessible introduction to the discipline for graduate students Provides a comprehensive up to date account of the field Covers computational methods as well as the underlying physics Serves as an ideal reference book for researchers and a rigorous yet accessible textbook for graduate students An online illustration package is available to professors at press.princeton.edu

Stellar Atmospheres Cecilia Payne-Gaposchkin, 1925 Original thesis submitted to Radcliffe College The typescript is a summary of the thesis with handwritten ink insertions The galley proof contains the full text and bears blue and graphite pencil markings A library thesis use form is affixed to the bottom of the first page of the galley

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

Stellar Atmospheres: Beyond Classical Models L. Crivellari, Ivan Hubeny, D. Hummer, 1991-07-31 The theory of stellar atmospheres is one of the most important branches of modern astrophysics It is first of all a major tool for understanding all aspects of stars As the physical properties of their outer layers can now be found with high precision firm conclusions can be drawn about the internal structure and evolution of stars Moreover improvements in our knowledge of the chemical composition of stars is shedding new light on the chemical evolution of galaxies and of the Universe as a whole Because the outer layers of stars are among the best understood astrophysical objects the theory of stellar atmospheres plays an important role in the study of many other types of objects These include planetary nebulae H II regions interstellar matter and objects of interest in high energy astrophysics such as accretion disks

close binaries dwarf novae cataclysmic variables quasars active galactic nuclei pulsar magnetospheres and Seyfert galaxies Finally as stars provide a laboratory in which plasmas can be studied under more extreme conditions than on earth the study of stellar atmospheres has strong connections with modern physics Astronomical observations provided a vital stimulus in the early stages of quantum theory and atomic physics even today topics such as low temperature dielectronic recombination develop hand in hand with the interpretation of stellar and nebular spectra Early work on MHD was similarly motivated Many such connections remain to be explored Stellar Atmospheres Jesse Leonard Greenstein, 1961 **Stellar**

Atmospheres: Theory and Observations Jean P. de Greve, Ronny Blomme, Herman Hensberge, 1997-10-15 The 1996 Summer School of the European Astrophysical Doctoral Network dealt with the atmospheres of stars the various theories that describe their structure and the interactions with the interior of the stars as well as with the interstellar environment and the observations that support modify and sometimes contradict these theories This volume aims to provide the reader with an insight into problems related to stellar atmospheres both for cool and for hot stars Furthermore it offers opportunities to deal with modern technologies in analysing observational data versus theoretical modelling *Stellar Atmospheres* Dimitri Mihalas, 1970 Glossary of physical symbols *Radiation Transfer and Stellar Atmospheres* Thomas L. Swihart, 1981 **The New Cosmos** Albrecht Unsöld, Bodo Baschek, 2013-06-29 Astronomy astrophysics and space research have witnessed an explosive development over the last few decades The new observational potential offered by space stations and the availability of powerful and highly specialized computers have revealed novel aspects of the fascinating realm of galaxies quasars stars and planets The present completely revised 5th edition of *The New Cosmos* provides ample evidence of these dramatic developments In a concise presentation which assumes only a modest prior knowledge of mathematics and physics the book gives a coherent introduction to the entire field of astronomy and astrophysics At the same time it takes into account the art of observation and the fundamental ideas behind their interpretation Like its predecessors this edition of *The New Cosmos* will provide new insight and enjoyment not only to students and researchers in the fields of astronomy physics and earth sciences but also to a wide range of interested amateurs **Stellar atmospheres : a contribution to the observational study of high temperature in the reversing layers of stars** Cecilia Payne-Gaposhkin, 1925

Introduction to Stellar Atmospheres and Interiors Eva Novotny, 1973 Part One of this four part book reviews the observational data with which the theoretical results must be compared Parts Two and Three develop the basic theoretical concepts pertinent to stellar atmospheres and interiors Part Four provides detailed calculations of a model atmosphere and a number of model interiors *Nuclear Science Abstracts*, 1976-06 **Literature 1975, Part 1** S. Böhme, U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, F. Henn, D. Krahn, L. Schmadel, H. Scholl, G. Zech, 2013-04-18 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International

Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 13 contains literature published in 1975 and received before August 15 1975 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska who surveyed journals and publications in the Czech language and supplied us with abstracts in English and by the Commonwealth Scientific and Industrial Research Organization CSIRO Sydney for providing titles and abstracts of papers on radio astronomy We want to acknowledge valuable contributions to this volume by Zentralstelle für Atomkernenergie Dokumentation Leopoldshafen which supported our abstracting service by sending us retrospective literature searches

Literature 1980, Part 1 Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user I 1980 some older Volume 27 contains literature published in 1980 and received before August literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

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