

Stellar Atmospheres

- ❑ The Description of the Radiation Field
- ❑ Stellar Opacity
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- ❑ The Structure of Spectral Lines

Radiation Transfer And Stellar Atmospheres

Cornelis Jager, A. B. Underhill



Radiation Transfer And Stellar Atmospheres:

Radiation Transfer and Stellar Atmospheres Thomas L. Swihart, 1981

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

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

Radiative Transfer in Stellar Atmospheres Robert J. Rutten, Sterrekundig Instituut Utrecht, 1995

Transfer of Radiation in Stellar Atmospheres Cornelis Jager, A. B. Underhill, 1963

Radiative Transfer in Extended Stellar Atmospheres Robert DeWitt Chapman, 1964 To investigate the transfer of radiation in extended stellar atmospheres the transfer equation is solved for an infinite spherically symmetric medium by expanding the intensity in terms of Legendre polynomials The nature of the solutions is discussed in detail A literature survey and a presentation of the basic theory are included Author

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

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