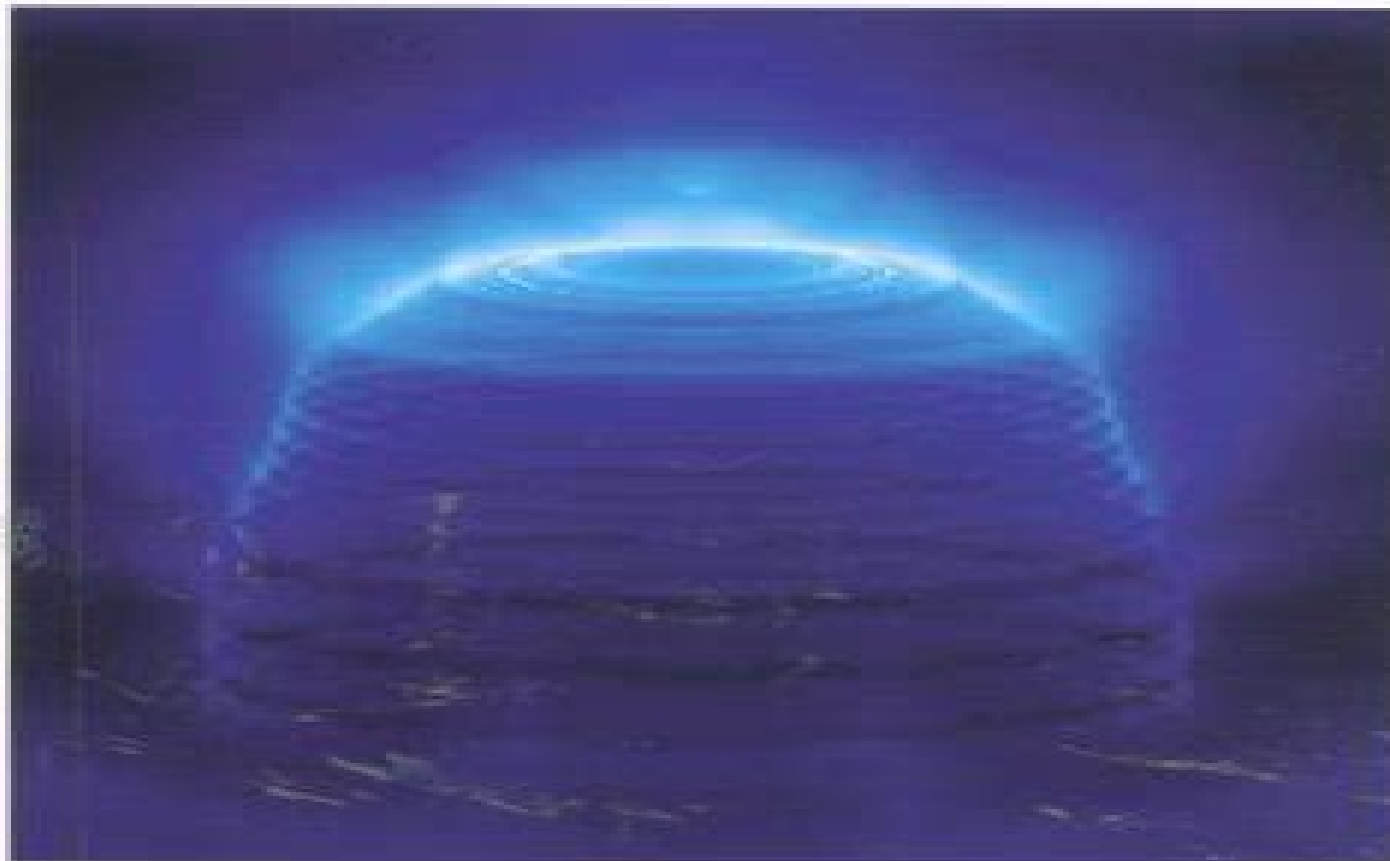


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Radiative Processes in Astrophysics



Radiative Processes In Astrophysics

Walter J. Maciel

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Radiative Processes in Astrophysics George B. Rybicki, Alan P. Lightman, 1991-01-08 Radiative Processes in Astrophysics This clear straightforward and fundamental introduction is designed to present from a physicist's point of view radiation processes and their applications to astrophysical phenomena and space science It covers such topics as radiative transfer theory relativistic covariance and kinematics bremsstrahlung radiation synchrotron radiation Compton scattering some plasma effects and radiative transitions in atoms Discussion begins with first principles physically motivating and deriving all results rather than merely presenting finished formulae However a reasonably good physics background introductory quantum mechanics intermediate electromagnetic theory special relativity and some statistical mechanics is required Much of this prerequisite material is provided by brief reviews making the book a self contained reference for workers in the field as well as the ideal text for senior or first year graduate students of astronomy astrophysics and related physics courses Radiative Processes in Astrophysics also contains about 75 problems with solutions illustrating applications of the material and methods for calculating results This important and integral section emphasizes physical intuition by presenting important results that are used throughout the main text it is here that most of the practical astrophysical applications become apparent

Radiative Processes in Astrophysics George B. Rybicki, Alan P. Lightman, 1979 Radiative Processes in Astrophysics This clear straightforward and fundamental introduction is designed to present from a physicist's point of view radiation processes and their applications to astrophysical phenomena and space science It covers such topics as radiative transfer theory relativistic covariance and kinematics bremsstrahlung radiation synchrotron radiation Compton scattering some plasma effects and radiative transitions in atoms Discussion begins with first principles physically motivating and deriving all results rather than merely presenting finished formulae However a reasonably good physics background introductory quantum mechanics intermediate electromagnetic theory special relativity and some statistical mechanics is required Much of this prerequisite material is provided by brief reviews making the book a self contained reference for workers in the field as well as the ideal text for senior or first year graduate students of astronomy astrophysics and related physics courses Radiative Processes in Astrophysics also contains about 75 problems with solutions illustrating applications of the material and methods for calculating results This important and integral section emphasizes physical intuition by presenting important results that are used throughout the main text it is here that most of the practical astrophysical applications become apparent

Radiative Processes in High Energy Astrophysics Gabriele Ghisellini, 2013-06-03 This book grew out of the author's notes from his course on Radiative Processes in High Energy Astrophysics The course provides fundamental definitions of radiative processes and serves as a brief introduction to Bremsstrahlung and black body emission relativistic beaming synchrotron emission and absorption Compton scattering synchrotron self Compton emission pair creation and emission The final chapter discusses the observed features of Active Galactic Nuclei and their interpretation

based on the radiative processes presented in the book Written in an informal style this book will guide students through their first encounter with high energy astrophysics *Atomic Spectroscopy and Radiative Processes* Egidio Landi Degl'Innocenti, 2014-06-24 This book describes the basic physical principles of atomic spectroscopy and the absorption and emission of radiation in astrophysical and laboratory plasmas It summarizes the basics of electromagnetism and thermodynamics and then describes in detail the theory of atomic spectra for complex atoms with emphasis on astrophysical applications Both equilibrium and non equilibrium phenomena in plasmas are considered The interaction between radiation and matter is described together with various types of radiation e g cyclotron synchrotron bremsstrahlung Compton The basic theory of polarization is explained as is the theory of radiative transfer for astrophysical applications Atomic Spectroscopy and Radiative Processes bridges the gap between basic books on atomic spectroscopy and the very specialized publications for the advanced researcher it will provide under and postgraduates with a clear in depth description of theoretical aspects supported by practical examples of applications *An Introduction to Special Relativity for Radiation and Plasma Physics* Greg Tallents, 2022-11-24 An introduction to special relativity and its applications with an emphasis on the interaction and production of light in plasma **High Energy Radiation from Black Holes** Charles Dermer, Govind Menon, 2009-10-11 Beginning with Einstein's special and general theories of relativity the authors give a detailed mathematical description of fundamental astrophysical radiation processes including Compton scattering of electrons and photons synchrotron radiation of particles in magnetic fields and much more **Tools of Radio Astronomy** Thomas L. Wilson, Kristen Rohlfs, Susanne Hüttemeister, 2013-12-05 This 6th edition of Tools of Radio Astronomy the most used introductory text in radio astronomy has been revised to reflect the current state of this important branch of astronomy This includes the use of satellites low radio frequencies the millimeter sub mm universe the Cosmic Microwave Background and the increased importance of mm sub mm dust emission Several derivations and presentations of technical aspects of radio astronomy and receivers such as receiver noise the Hertz dipole and beam forming have been updated expanded re worked or complemented by alternative derivations These reflect advances in technology The wider bandwidths of the Jansky VLA and long wave arrays such as LOFAR and mm sub mm arrays such as ALMA required an expansion of the discussion of interferometers and aperture synthesis Developments in data reduction algorithms have been included As a result of the large amount of data collected in the past 20 years the discussion of solar system radio astronomy dust emission and radio supernovae has been revisited The chapters on spectral line emission have been updated to cover measurements of the neutral hydrogen radiation from the early universe as well as measurements with new facilities Similarly the discussion of molecules in interstellar space has been expanded to include the molecular and dust emission from protostars and very cold regions Several worked examples have been added in the areas of fundamental physics such as pulsars Both students and practicing astronomers will appreciate this new up to date edition of Tools of Radio Astronomy Tools of Radio Astronomy

Kristen Rohlfs, T. L. Wilson, 2013-03-14 Progress in the fields of science and technology is again the reason for updating this text. Most changes occur in Chaps 4, 7, 8, and 14. In the others we have made a number of minor improvements. In Chap 4 Signal Processing and Receivers we have shortened the presentation of maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy. Instead we have expanded the presentation of cooled transistor and superconducting front ends and we have added a short section on coherent multi beam receiver systems. The chapter titled Observational Methods now appears as Chap 7 and mainly addresses single dish observations. Chapter 8 now concerns Interferometers and Aperture Synthesis. Aperture synthesis has become the single important imaging technique in observational astronomy and its use most has spread from the radio frequency range into other wavelength bands providing the only general method available for obtaining images of extremely high resolution and quality. The discussion of the foundations for aperture synthesis therefore have been extended and hopefully improved. Both the hardware and the software instrumentation is now collected in this chapter.

Fundamentals of Astrophysical Fluid Dynamics

Shoji Kato, Jun Fukue, 2020-06-19 This book offers an overview of the fundamental dynamical processes which are necessary to understand astrophysical phenomena from the viewpoint of hydrodynamics, magnetohydrodynamics, and radiation hydrodynamics. The book consists of three parts. The first discusses the fundamentals of hydrodynamics necessary to understand the dynamics of astrophysical objects such as stars, interstellar gases, and accretion disks. The second part reviews the interactions between gases and magnetic fields on fluid motions, the magnetohydrodynamics highlighting the important role of magnetic fields in dynamical phenomena under astrophysical environments. The third part focuses on radiation hydrodynamics, introducing the hydrodynamic phenomena characterized by the coupling of radiation and gas motions and further on relativistic radiation hydrodynamics. Intended as a pedagogical introduction for advanced undergraduate and graduate students, it also provides comprehensive coverage of the fundamentals of astrophysical fluid dynamics, making it an effective resource not only for graduate courses but also for beginners wanting to learn about hydrodynamics, magnetohydrodynamics, and radiation hydrodynamics in astrophysics independently.

Tools of Radio Astronomy

T. L. Wilson, Kristen Rohlfs, Susanne Hüttemeister, 2008-11-14 Four significant factors have led us to update this text. The first is the breathtaking progress in technology, especially in receiver and digital techniques. The second is the advance of radio astronomy to shorter wavelengths and the increased availability of astronomical satellites. The third is a need to reorganize some of the chapters in order to separate the basic theory that seldom changes from practical aspects that change often. Finally, it is our desire to enhance the text by including problem sets for each chapter. In view of this ambitious plan, we have expanded the number of authors. In the reorganization of this edition, we have divided Chap 4 of the 4th edition into two Chaps 4 and 5. The first remains Chap 4 with a slightly different title, Signal Processing and Receivers Theory. This was expanded to include digital processing and components including samplers and digitizers. In Chap 5 Practical Receiver Systems, we have relegated the presentations of

maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy to a short section on historical developments and We have retained and improved the presentations of current state of the art devices cooled transistor and superconducting front ends We have also included descriptions of local oscillators and phase lock loops Chapters 5 and 6 in the 4th edition has now become Chap 6 Fundamentals of Antenna Theory and Chap

Astronomy Methods Hale Bradt, 2004 Astronomy Methods is an introduction to the basic practical tools methods and phenomena that underlie quantitative astronomy Taking a technical approach the author covers a rich diversity of topics across all branches of astronomy from radio to gamma ray wavelengths Topics include the quantitative aspects of the electromagnetic spectrum atmospheric and interstellar absorption telescopes in all wavebands interferometry adaptive optics the transport of radiation through matter to form spectral lines and neutrino and gravitational wave astronomy Clear systematic presentations of the topics are accompanied by diagrams and problem sets Written for undergraduates and graduate students this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics Radiation Processes in Astrophysics Wallace H. Tucker, 1975 The purpose of this book is twofold to provide a brief simple introduction to the theory of radiation and its application in astrophysics and to serve as a reference manual for researchers The first part of the book consists of a discussion of the basic formulas and concepts that underlie the classical and quantum descriptions of radiation processes The rest of the book is concerned with applications The spirit of the discussion is to present simple derivations that will provide some insight into the basic physics involved and then to state the exact results in a form useful for applications The reader is referred to the original literature and to reviews for rigorous derivations The wide range of topics covered is illustrated by the following table of contents Basic Formulas for Classical Radiation Processes Basic Formulas for Quantum Radiation Processes Cyclotron and Synchrotron Radiation Electron Scattering Bremsstrahlung and Collision Losses Radiative Recombination The Photoelectric Effect and Emission and Absorption Lines Introduction to Stellar Structure Walter J. Maciel, 2015-09-16 This book provides a comprehensive overview of stellar structure evolution and basic stellar properties It includes integrated problems within the chapters with worked solutions In the first part of this book the author presents the basic properties of the stellar interior and describes them thoroughly along with deriving the main stellar structure equations of temperature density pressure and luminosity among others The process and application of solving these equations is explained as well as linking these results with actual observations The second part of the text describes what happens to a star over time and how to determine this by solving the same equations at different points during a star's lifetime The fate of various stars is quite different depending on their masses and this is described in the final parts of the book This text can be used for an upper level undergraduate course or an introductory graduate course on stellar physics Particles in the Dark Universe Yann Mambrini, 2024-10-21 This second edition of Particles in the Dark Universe has been substantially enhanced with several new chapters that delve into crucial

aspects of particle physics in the Universe These additions encompass the role of primordial black holes in the early universe tracing their formation to decay unification theories a comprehensive historical overview of cosmological models an extensive examination of the physics of the graviton and an educational exploration of gravitational phenomena such as Unruh type or Hawking radiation Additionally this edition incorporates 30 new exercises and provides a comprehensive presentation of inflationary models along with a pedagogical insight into the mechanism of baryogenesis Structured in a logical sequence this book offers a thorough and instructional exploration of particle physics within the early universe It initiates by elucidating the thermal history of the universe delving into pivotal concepts like Big Bang nucleosynthesis the cosmic microwave background CMB and inflation Subsequently it meticulously addresses both direct and indirect detection methods of dark matter followed by an in depth analysis of neutrino physics The book further scrutinizes potential candidates for dark matter and their interactions Designed for theoretical physicists engaged in particle physics within the universe dark matter detection astrophysical constraints and those interested in models of inflation or reheating this book also caters to astrophysicists involved in quantum field theory computations It encompasses all essential elements required for computing various physical processes providing mathematical tables necessary thermodynamic functions for the early universe and Feynman rules Consequently this book serves as an intersecting point between astrophysics particle physics and cosmology

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

Compendium of Practical Astronomy Günter D. Roth, 2012-12-06 It is a pleasure to present this work which has been well received in German speaking countries through four editions to the English speaking reader We feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere We are grateful to the authors for reading through the English version of the text and for responding promptly for the most part to our queries Several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary English references We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text Where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in English speaking countries from that in Germany When the first English edition of this work Astronomy A Handbook translated by the late A Beer appeared in 1975 it contained 21 chapters This new edition is over twice the length and contains 28 authored chapters in three volumes At Springer's request we have devised a new title Compendium of Practical Astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

Beyond the Standard Model Cocktail Yann Gouttenoire, 2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology

After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed

Atoms, Stars, and Nebulae Lawrence H. Aller,1991-08-30

A semi popular account of stars and gaseous nebulae treating topics such as stellar evolution the origin of elements supernovae and cosmic rays

Astroparticle Physics Claus Grupen,2020-01-27 This second revised and thoroughly updated edition of the successful textbook by Claus Grupen describes the branch of astrophysics known as astroparticle physics Using experimental methods known from cosmic ray and particle physics astroparticle physics investigates processes of highest energies taking place in the universe The new edition reports on progress made by recent discoveries in gravitational wave astronomy and neutrino astronomy including all details needed to understand recent discoveries in multi messenger experiments and also astrobiology After a historical introduction to the basics of elementary particles the author describes their interactions and the relevant detection techniques The main body of the book concerns cosmic rays as well as particle processes in astrophysics and cosmology including the physics of the early universe The book provides an orientation in the field of astroparticle physics that many beginners might be looking for It also presents new sections exploring the interface between particle physics and cosmic radiation and illustrates the impact of particle physics discoveries to astroparticle physics The physics is presented using little mathematics and the results are illustrated by many diagrams and illustrative scientific cartoons which ease the reading of the book Closing the gap between expert and popular level the book is highly recommended for undergraduate students in physics or astronomy It also includes an extensive glossary and a detailed index

Planetary Sciences Imke de Pater,Jack J. Lissauer,2015-01-29 This updated second edition takes in the latest measurements An authoritative introduction for graduate students in the physical sciences

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Radiative Processes In Astrophysics Introduction

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