

CAMBRIDGE ASTROPHYSICS SERIES 19

Michael D. Smith

Astrophysical Jets and Beams

Astrophysical Jets And Beams Cambridge Astrophysics

**Randall J. LeVeque, Dimitri
Mihalas, E.A. Dorfi, Ewald Müller**



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Beams and Jets in Astrophysics Philip A. Hughes, 1991-01-25 This book is the first to provide students and researchers in the field of astrophysical jets with a comprehensive and up to date account of current research An important feature of the book is that it combines discussions of both extragalactic and Galactic jets There are ten chapters authored by fourteen active researchers each of whom is an expert on their chosen topic and the book has been edited to provide a cohesive account of this field of study This is the first volume to integrate studies of jets on all length scales It will be an important textbook for graduate students and a valuable reference source for researchers in many areas of extragalactic and Galactic astronomy It will also be of interest to plasma physicists and space scientists

Astrophysical Jets Silvano Massaglia, Gianluigi Bodo, 1998 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company

Astrophysical Jets D. Burgarella, M. Livio, C. P. O'Dea, 1993-11-11 A collection of edited review articles presented at a workshop at the Space Telescope Science Institute which gathered astrophysicists from the fields of extragalactic and galactic stellar jets

An Introduction to Astrophysical Hydrodynamics Steven N. Shore, 2012-12-02 This book is an introduction to astrophysical hydrodynamics for both astronomy and physics students It provides a comprehensive and unified view of the general problems associated with fluids in a cosmic context with a discussion of fluid dynamics and plasma physics It is the only book on hydrodynamics that addresses the astrophysical context Researchers and students will find this work to be an exceptional reference Contents include chapters on irrotational and rotational flows turbulence magnetohydrodynamics and instabilities

Astrophysical Magnetic Fields Anvar Shukurov, Kandaswamy Subramanian, 2021-12-16 This self contained introduction to astrophysical magnetic fields provides a comprehensive review of the current state of the field and a critical discussion of the latest research Its emphasis on results that are likely to form the basis for future progress benefits a broad audience of advanced students and active researchers

Introduction to Black Hole Astrophysics Gustavo E. Romero, Gabriela S. Vila, 2013-09-14 This book is based on the lecture notes of a one semester course on black hole astrophysics given by the author and is aimed at advanced undergraduate and graduate students with

an interest in astrophysics The material included goes beyond that found in classic textbooks and presents details on astrophysical manifestations of black holes In particular jet physics and detailed accounts of objects like microquasars active galactic nuclei gamma ray bursts and ultra luminous X ray sources are covered as well as advanced topics like black holes in alternative theories of gravity The author avoids unnecessary technicalities and to some degree the book is self contained The reader will find some basic general relativity tools in Chapter 1 The appendices provide some additional mathematical details that will be useful for further study and a guide to the bibliography on the subject

Computational Methods for Astrophysical Fluid Flow Randall J. LeVeque, Dimitri Mihalas, E.A. Dorfi, Ewald Müller, 2006-04-18 This book leads directly to the most modern numerical techniques for compressible fluid flow with special consideration given to astrophysical applications Emphasis is put on high resolution shock capturing finite volume schemes based on Riemann solvers The applications of such schemes in particular the PPM method are given and include large scale simulations of supernova explosions by core collapse and thermonuclear burning and astrophysical jets Parts two and three treat radiation hydrodynamics The power of adaptive moving grids is demonstrated with a number of stellar physical simulations showing very crispy shock front structures

Advanced Topics on Astrophysical and Space Plasmas E.M. de Gouveia Dal Pino, Anthony L. Peratt, G.A. Medina Tanco, A.C.-L. Chian, 2012-12-06 In June of 1996 at the idyllic seaside resort of Guaruj Brazil a renowned group of researchers in space and astrophysical plasmas met to provide a forum on Advanced Topics on Astrophysical and Space Plasmas at a school consisting of some 60 students and teachers mainly from Brazil and Argentina but also from all the other parts of the globe The purpose was to provide an update on the latest theories observations and simulations of space astrophysical plasma phenomena The topics covered included space plasma mechanisms for particle acceleration nonthermal emission in cosmic plasma magnetohydrodynamic instabilities in solar interstellar and other cosmic objects magnetic field line reconnection and merging the nonlinear and often chaotic structure of astrophysical plasmas and the advances in high performance supercomputing resources to replicate the observed phenomena The lectures were presented by Professor Mark Birkinshaw of the Harvard Smithsonian Center for Astrophysics and the University of Bristol Dr Anthony Peratt Los Alamos National Laboratory Scientific Advisor to the United States Department of Energy Dr Dieter Biskamp of the Max Planck Institute for Plasma Physics Garching Germany Professor Donald Melrose Director Centre for Theoretical Astrophysics University of Sydney Australia Professor Abraham Chian of the National Institute for Space Research Brazil and Professor Nelson Fiedler Ferrara of the University of S o Paulo Brazil As summarized by Professor Reuven Opher Institute of Astronomy and Geophysics University of S o Paulo the advanced or interested student of space and astrophysical plasmas will find reference to nearly all modern aspects in the field of Plasma Astrophysics and Cosmology in the presented lectures

Astrophysical Fluid Dynamics E. Battaner, 1996-02-23 This first course in fluid dynamics covers the basics and introduces a wealth of astronomical applications

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Smith,2012-02-16 An up to date study of astrophysical jets that will appeal to students and researchers in all areas of astrophysics

Pulsar Astronomy Andrew Lyne,Francis Graham-Smith,Benjamin Stappers,2022-08-04 After more than half a century since their unexpected discovery and identification as neutron stars the observation and understanding of pulsars touches upon many areas of astronomy and astrophysics The literature on pulsars is vast and the observational techniques used now cover the whole of the electromagnetic spectrum from radio to gamma rays Now in its fifth edition this volume has been reorganised and features new material throughout It provides an introduction in historical and physical terms to the many aspects of neutron stars including condensed matter physics of the magnetosphere supernovae and the development of the pulsar population propagation in the interstellar medium binary stars gravitation and general relativity The current development of a new generation of powerful radio telescopes designed with pulsar research in mind makes this survey and guide essential reading for a growing body of students and astronomers

Protostellar Jets in Context Kanaris Tsinganos,Tom Ray,Matthias Stute,2009-09-24 It is over a quarter of a century since the discovery of out flows from young stars The intervening years have led to remarkable advances in our understanding of this phenomenon Much of the progress can be attributed to advances in facilities and technologies including not only larger telescopes but also improved instrument and detector performance In addition protostellar out flows have now been imaged from the ground and space at high spatial resolution e g with HST and at a wide riety of wavelengths from X rays to radio waves revealing more and more about their physics This veritable revolution in observation has been accompanied by an exponential growth in our ability to numerically simulate the launching and pro gation of jets Codes continue to improve they now incorporate more physics and are increasingly ef cient through for example techniques such as adaptive mesh re nement and the use of parallel processing in cluster environments Simulating the launching and propagation of a jet all the way from the vicinity of the star up to 4 several thousand AU a size range of10 is now much closer In more recent times developments in observation theory and numerical s ulation have been joined by laboratory jet experiments reproducing on centimetre scales that which is seen in astrophysics to stretch for several parsecs

Cosmic Magnetic Fields , Extragalactic Radio Sources R. Ekers,C. Fanti,L. Padrielli,2012-12-06 On the 100th anniversary of Marconi s successful experiment on radio broadcasting 250 astronomers from all over the world met in Bologna Italy for five days to update their knowledge of the physics and statistical properties of powerful extragalactic radio sources Since their discovery in the fifties enormous progress has been made The existence of superluminal motions in the cores of radio sources the presence there of a black hole surrounded by an absorbing dust torus as inferred mostly from studies at other wavelengths are now accepted ideas Nevertheless in spite of these efforts there are many questions still unanswered For instance we do not know which mechanism produces the huge amount of energy supplied to radio sources how the jets connecting the engine to the lobes are formed and collimated which of the differences observed among the various classes of radio sources are apparent and which are real These and other related topics are

discussed in this book **Gas Dynamics** Abraham Achterberg,2016-06-20 This book lays the foundations of gas and fluid dynamics The basic equations are developed from first principles building on the assumed knowledge of Classical Mechanics This leads to the discussion of the mathematical properties of flows conservation laws perturbation analysis waves and shocks Most of the discussion centers on ideal frictionless fluids and gases Viscous flows are discussed when considering flows around obstacles and shocks Many of the examples used to illustrate various processes come from astrophysics and geophysical phenomena **Extreme Ultraviolet Astronomy** Martin A. Barstow,Jay B. Holberg,2003-03-13 This text describes the development of astronomy in the Extreme Ultraviolet EUV wavelength range from the first rocket based experiments in the late 1960s through to later satellite missions Discussions of the results from important space projects are followed by an analysis of the contributions made by EUV astronomy to the study of specific groups of astronomical objects Within this framework the book provides detailed material on the tools of EUV astronomy dealing with the instrumentation observational techniques and modelling tools for the interpretation of data Prospects for future EUV missions are discussed and a catalogue of the known EUV sources is included This book will be of great value to graduate students and researchers It gives a complete overview of Extreme Ultraviolet astronomy Gamma-ray Bursts Chryssa Kouveliotou,Ralph A. M. J. Wijers,Stan Woosley,2012-11-22 Cosmic gamma ray bursts GRBs have fascinated scientists and the public alike since their discovery in the late 1960s Their story is told here by some of the scientists who participated in their discovery and after many decades of false starts solved the problem of their origin Fourteen chapters by active researchers in the field present a detailed history of the discovery a comprehensive theoretical description of GRB central engine and emission models a discussion of GRB host galaxies and a guide to how GRBs can be used as cosmological tools Observations are grouped into three sets from the satellites CGRO BeppoSAX and Swift and followed by a discussion of multi wavelength observations This is the first edited volume on GRB astrophysics that presents a fully comprehensive review of the subject Utilizing the latest research Gamma ray Bursts is an essential desktop companion for graduate students and researchers in astrophysics *An Introduction to Radio Astronomy* Bernard F. Burke,Franis Graham-Smith,2002-04-04 Radio astronomy uses unique observational techniques and offers the only way to investigate many phenomena in the Universe This book by two founders of the field presents both a clear introduction to radio telescopes and techniques and a broad overview of the radio universe The material in this new edition has been expanded and updated reflecting the developments in the field over the last decade New material reflects the increasing use of aperture synthesis and Very Long Baseline Interferometry and the further exploitation of molecular spectral lines A new chapter is devoted to the fundamentals of radiation and propagation theory The second half of the book constitutes a review of radio observations of our Milky Way galaxy Wide ranging and clearly written this book provides a thorough and up to date introduction to the subject for graduate students and an invaluable overview for researchers turning to radio astronomy for the first time *The Impact of Binary Stars on Stellar Evolution*

Giacomo Beccari, Henri M. J. Boffin, 2019-04-18 An advanced review of how binary stars affect stellar evolution presenting results from state of the art models and recent observations

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