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# Magneto- hydrodynamics in Binary Stars

*Second Edition*

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# Magnetohydrodynamics In Binary Stars

**Cosimo Bambi, Yosuke  
Mizuno, Swarnim Shashank, Feng Yuan**



## **Magnetohydrodynamics In Binary Stars:**

*Magnetohydrodynamics in Binary Stars* C.G. Campbell, 2001-11-30 Magnetic stresses were discussed as a possible means of angular momentum transport in the development of accretion disc theory in the late sixties and early seventies Interest in the role of magnetic fields in close binary stars steadily increased after the discovery of the nature of AM Herculis in 1976 The observed lack of an accretion disc and the synchronous rotation of the white dwarf suggested strong magnetic effects consistent with the high degree of optical polarization Similar systems were soon discovered Evidence for large magnetic fields was subsequently found in the X ray binary pulsars and the intermediate polar binaries both believed to include systems with partially disrupted accretion discs A magnetically channelled wind from the main sequence secondary star has been invoked to explain the higher mass transfer rates observed in binaries above the period gap and in an explanation of the gap Magnetically influenced winds from accretion discs have been suggested as contributing to the inflow by removing angular momentum Magnetism in binary stars is now an area of central importance in stellar astrophysics Magnetic fields are believed to play a fundamental role even in apparently non magnetic binaries They provide the most viable means through shear instabilities of generating the turbulence in accretion discs necessary to drive the inflow via the resulting magnetic and viscous stresses

**Magnetohydrodynamics in Binary Stars** C.G. Campbell, 2000-06-15 **Magnetohydrodynamics in Binary Stars** C. G. Campbell, 2018-10-13 Magnetism in binary stars is an area of central importance in stellar astrophysics The second edition of *Magnetohydrodynamics in Binary Stars* is a major revision of the first edition The material has been updated and extended including additional chapters on the origins of the stellar magnetic fields and accretion disc magnetic winds A comprehensive account is given of the subject from the early work up to the latest results The unifying theme remains the redistribution of angular momentum by magnetic stresses This occurs in a wide variety of ways including magnetic stellar and orbital coupling magnetic channelling of accretion streams magnetic stellar coupling to accretion discs dynamo field coupling in discs and magnetic stellar and disc winds The associated stellar spin and orbital evolution problems including stability are also considered Although the main focus is on binary stars much of the work on accretion discs and wind flows has more general astrophysical relevance Convenient formulae are included that can be compared to observations making the book useful to observers as well as theorists and there are extensive reference lists The material is mainly aimed at research workers but parts of the text could be useful for postgraduate courses in magnetic stellar astrophysics topics

Plasma Astrophysics, Part I Boris V. Somov, 2012-08-31 This two part book is devoted to classic fundamentals and current practices and perspectives of modern plasma astrophysics This first part uniquely covers all the basic principles and practical tools required for understanding and work in plasma astrophysics More than 25% of the text is updated from the first edition including new figures equations and entire sections on topics such as magnetic reconnection and the Grad Shafranov equation The book is aimed at professional researchers in astrophysics but it will also be useful to graduate students in space

sciences geophysics applied physics and mathematics especially those seeking a unified view of plasma physics and fluid mechanics

**Plasma Astrophysics, Part II** Boris V. Somov, 2007-12-31 Magnetic elds are easily generated in astrophysical plasma owing to its high conductivity Magnetic elds having strengths of order few 10 G correlated on several kiloparsec scales are seen in spiral galaxies Their origin could be due to amplification of a small seed eld by a turbulent galactic dynamo In several galaxies like the famous M51 magnetic elds are well correlated or anti correlated with the optical spiral arms These are the weakest large scale elds observed in cosmic space The strongest magnets in space are presumably the so called magnetars the highly magnetized with the strength of the eld of about  $10^{15}$  G young neutron stars formed in the supernova explosions The energy of magnetic elds is accumulated in astrophysical plasma and the sudden release of this energy an original electrodynamical burst or explosion takes place under definite but quite general conditions P att 1992 Sturrock 1994 Kivelson and Russell 1995 Rose 1998 Priest and Forbes 2000 Somov 2000 Kundt 2001 Such a are in astrophysical plasma is accompanied by fast directed ejections jets of plasma powerful flows of heat and hard electromagnetic radiation as well as by impulsive acceleration of charged particles to high energies

**The Role of Magnetic Fields in the Formation of Stars** Derek Ward-Thompson, Ray S. Furuya, Yusuke Tsukamoto, Christopher F. McKee, 2020-06-29

**Cosmic Plasma Physics** B.V. Somov, 2013-03-09 of the approximation at hand will be outlined from the viewpoint of physics rather than of many possible astronomical applications After that as an aid to detailed understanding please return with pencil and paper to work out the missing steps if any in the formal mathematics On the basis of such an approach the student interested in modern astrophysics its current practice will find the answers to two key questions 1 what approximation is the best one the simplest but sufficient for description of a phenomenon in cosmic plasma 2 how to build an adequate model for the phenomenon for example a solar flare Practice is really important for understanding the theory of cosmic plasma Related exercises problems and answers supplemented to each chapter to improve skill do not thwart the theory but serve to better understanding of cosmic plasma physics As for the applications preference evidently is given to physical processes in the solar plasma Why Much attention to solar plasma physics is on the possibility of the all round observational test of theoretical conditions by models This statement primarily relates to the processes in the solar atmosphere For instance flares on the Sun in contrast to those on other stars as well as a lot of other analogous phenomena in the Universe can be seen in their development i.e.

**New Frontiers in GRMHD Simulations** Cosimo Bambi, Yusuke Mizuno, Swarnim Shashank, Feng Yuan, 2025-03-10 This book offers an updated comprehensive review of the rapidly expanding field of GRMHD simulations In Part I it reviews the basic equations for GRMHD simulations and for numerical relativity Part II describes public codes for GRMHD simulations Part III is devoted to accretion processes onto compact objects in the non self gravitating fluid approximation Part IV reviews the state of the art of GRMHD simulations with self gravitating fluids This book represents both a valuable book for graduate students and important reference resource for researchers in the field

**Introduction**

**to Magnetohydrodynamics** P. A. Davidson, 2017 Comprehensive textbook prioritising physical ideas over mathematical detail New material includes fusion plasma magnetohydrodynamics Encyclopedia of Astronomy & Astrophysics P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work **Stellar Magnetism** Leon Mestel, 2003-06-05 Most stars show some degree of magnetic activity from the familiar variations in the Sun's magnetic field which coincide with the sun spot cycle to the enormous magnetic fields created by rotating neutron stars Magnetic fields are also a potential key to understanding the formation of new stars and the behavior of galactic nuclei This book by one of the leading figures in stellar magnetism provides an authoritative survey of this rapidly developing field Based on a lifetime of research the book places stellar magnetism in a broad astronomical scope and provides a thorough well argued treatment of current work It covers the key topics discussing the relevant mathematics in detail and including numerous references and many of the topics particularly accretion discs dynamos and winds are equally important to the study of galaxies and galactic nuclei **Numerical Relativity** Masaru Shibata, 2015-11-05 This book is composed of two parts First part describes basics in numerical relativity that is the formulations and methods for a solution of Einstein's equation and general relativistic matter field equations This part will be helpful for beginners of numerical relativity who would like to understand the content of numerical relativity and its background The second part focuses on the application of numerical relativity A wide variety of scientific numerical results are introduced focusing in particular on the merger of binary neutron stars and black holes *Nuclear Science Abstracts*, 1975 **American Book Publishing Record**, 1997 Literature 1991, Part 2 Astronomisches Rechen-Institut, 2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world **Heliophysics: Active Stars, their Astrospheres, and Impacts on Planetary Environments** Carolus J. Schrijver, Frances Bagenal, Jan J. Sojka, 2016-03-17 Heliophysics is a fast developing scientific discipline that integrates studies of the Sun's variability the

surrounding heliosphere and the environment and climate of planets This volume the fourth in the Heliophysics collection explores what makes the conditions on Earth just right to sustain life by comparing Earth to other solar system planets by comparing solar magnetic activity to that of other stars and by looking at the properties of evolving exoplanet systems By taking an interdisciplinary approach and using comparative heliophysics the authors illustrate how we can learn about our local cosmos by looking beyond it and in doing so also enable the converse Supplementary online resources are provided including lecture presentations problem sets and exercise labs making this ideal as a textbook for advanced undergraduate and graduate level courses as well as a foundational reference for researchers in the many subdisciplines of helio and astrophysics

**High Performance Computing in Science and Engineering ' 08** Wolfgang E. Nagel, 2009-01-10 The discussions and plans on all scientific advisory and political levels to realize an even larger European Supercomputer in Germany where the hardware costs alone will be hundreds of millions Euro much more than in the past are getting closer to realization As part of the strategy the three national supercomputing centres HLRS Stuttgart NIC JSC Jülich and LRZ Munich have formed the Gauss Centre for Supercomputing GCS as a new virtual organization enabled by an agreement between the Federal Ministry of Education and Research BMBF and the state ministries for research of Baden Württemberg Bayern and Nordrhein Westfalen Already today the GCS provides the most powerful high performance computing infrastructure in Europe Through GCS HLRS participates in the European project PRACE Partnership for Advances Computing in Europe and tends its reach to all European member countries These activities align well with the activities of HLRS in the European HPC infrastructure project DEISA Distributed European Infrastructure for Supercomputing Applications and in the European HPC support project HPC Europa Beyond that HLRS and its partners in the GCS have agreed on a common strategy for the installation of the next generation of leading edge HPC hardware over the next few years The University of Stuttgart and the University of Karlsruhe have furthermore agreed to bundle their competences and resources

*The Physics of Stars* Mathias Scholz, 2025-04-30 Interested students in the natural and engineering sciences as well as high school graduates instructors teachers and amateur astronomers will find a valuable overview of the physics of stars in this book The only prerequisite is a basic mathematical and physical background which does not go beyond the knowledge of integral and differential calculus In this regard this book aims to bridge the gap with the specialized literature available on the internet allowing readers to benefit from it The first part traces the historical development that led to a detailed understanding of the nature of stars and their life cycles The goal of the following chapters is to provide a pragmatic introduction to the physical processes that determine the structure and evolution of stars based on their fundamental parameters such as mass and chemical composition It will show what can be learned from the analysis of starlight about stellar atmospheres the fundamental role of the virial theorem in the lives of stars and the nuclear processes deep inside stars that provide the energy that makes them shine Finally there will be an in depth phenomenological look at the final stages of stellar evolution

This section will discuss states of matter that are far from experimental realization but whose properties can be at least in principle inferred from the observation of concrete objects such as white dwarfs or neutron stars. Exciting developments are still expected in this area in the future. Mathias Scholz is hobby astronomer. He studied physics at the University of Rostock from 1981 to 1986. Interested students in the natural and engineering sciences as well as high school graduates, instructors, teachers, and amateur astronomers will find a valuable overview of the physics of stars in this book. The only prerequisite is a basic mathematical and physical background which does not go beyond the knowledge of integral and differential calculus. In this regard, this book aims to bridge the gap with the specialized literature available on the internet, allowing readers to benefit from it. The first part traces the historical development that led to a detailed understanding of the nature of stars and their life cycles. The goal of the following chapters is to provide a pragmatic introduction to the physical processes that determine the structure and evolution of stars based on their fundamental parameters such as mass and chemical composition. It will show what can be learned from the analysis of starlight about stellar atmospheres, the fundamental role of the virial theorem in the lives of stars, and the nuclear processes deep inside stars that provide the energy that makes them shine. Finally, there will be an in-depth phenomenological look at the final stages of stellar evolution. This section will discuss states of matter that are far from experimental realization but whose properties can be at least in principle inferred from the observation of concrete objects such as white dwarfs or neutron stars. Exciting developments are still expected in this area in the future.

**Turbulence in Rotating, Stratified and Electrically Conducting Fluids** P. A. Davidson, 2013-09-12

Starting from first principles, this graduate level monograph discusses turbulent flow in a wide range of geophysical and astrophysical settings.

**Black Hole Astrophysics** David L. Meier, 2012-07-27

As a result of significant research over the past 20 years, black holes are now linked to some of the most spectacular and exciting phenomena in the Universe, ranging in size from those that have the same mass as stars to the super massive objects that lie at the heart of most galaxies, including our own Milky Way. This book first introduces the properties of simple isolated holes, then adds in complications like rotation, accretion, radiation, and magnetic fields, finally arriving at a basic understanding of how these immense engines work. *Black Hole Astrophysics* reviews our current knowledge of cosmic black holes and how they generate the most powerful observed phenomena in the Universe, highlights the latest most up to date theories and discoveries in this very active area of astrophysical research, demonstrates why we believe that black holes are responsible for important phenomena such as quasars, microquasars, and gamma-ray bursts, explains to the reader the nature of the violent and spectacular outflows, winds, and jets generated by black hole accretion.

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