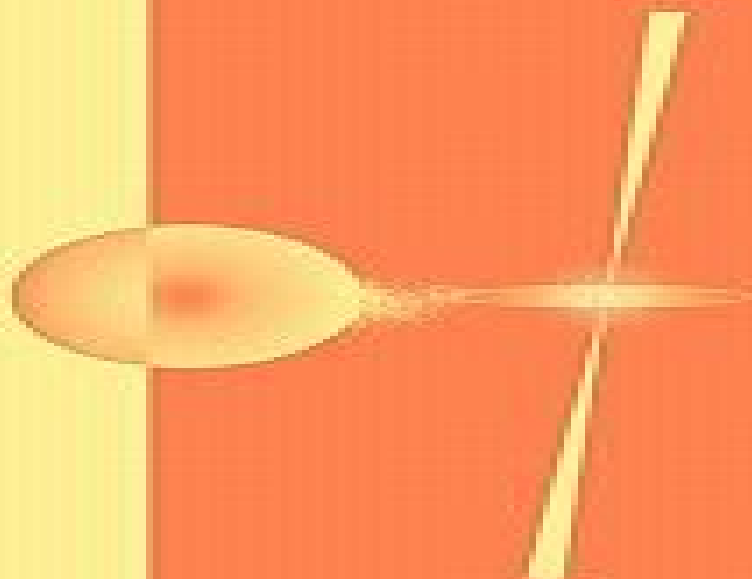




A. W. Guthmann · M. Georgopoulos  
A. Marcowith · K. Manolakou (Eds.)

# Relativistic Flows in Astrophysics



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# Relativistic Flows In Astrophysics

**Angelo Marcello Anile**



## **Relativistic Flows In Astrophysics:**

*Relativistic Flows in Astrophysics* A. W. Guthmann, M. Georganopoulos, A. Marcowith, 2014-10-01      *Accretion Flows in Astrophysics* Nikolay Shakura, 2018-10-03 This book highlights selected topics of standard and modern theory of accretion onto black holes and magnetized neutron stars. The structure of stationary standard discs and non-stationary viscous processes in accretion discs are discussed to the highest degree of accuracy; analytic theory can provide including relativistic effects in flat and warped discs around black holes. A special chapter is dedicated to a new theory of subsonic settling accretion onto a rotating magnetized neutron star. The book also describes supercritical accretion in quasars and its manifestation in lensing events. Several chapters cover the underlying physics of viscosity in astrophysical discs with some important aspects of turbulent viscosity generation. The book is aimed at specialists as well as graduate students interested in the field of theoretical astrophysics.

**Exploring the Universe: From Near Space to Extra-Galactic** Banibrata Mukhopadhyay, Sudipta Sasmal, 2018-10-01 This Festschrift dedicated to the 60th birth anniversary of Prof Sandip K Chakrabarti, a well-known Indian astrophysicist, presents a collection of contributions by about fifty scientists who work on diverse topics in contemporary astrophysics and space science, including new and low-cost balloon-borne experiments, planetary science, astrochemistry, and the origin of life, ionospheric research, and earthquake predictions. Relativistic astrophysics around black holes and finally the observational signatures and radiative properties of compact objects. All the authors are well-known scholars in their respective subject and are all PhD students of Prof Sandip K Chakrabarti. The book demonstrates a two-dimensional evolution of research areas triggered by Sandip Chakrabarti over the past few decades. The first dimension represents the evolution and diversification of Chakrabarti's own research, in which new students were trained. A second dimension arises from the evolution of the research topics pursued by Chakrabarti's fifty odd doctoral students, many of whom have become renowned scientists in their own right after starting with a certain subject under Chakrabarti and then migrating to completely new subjects with dexterity. The editors have compiled and edited the articles appropriately to some extent to suit the spirit of this Festschrift on the one hand and to keep balance in diverse topics on the other. Thus, this volume also provides an overview for whosoever wishes to enter the important subjects of compact objects, astrochemistry, ionospheric science, or space exploration in near space. New graduates, PhD scholars, teachers, and researchers will benefit from this volume. Moreover, it is a record of tremendous success of a school in a range of vast topics.

*Relativistic Flows in Astrophysics* A. W. Guthmann, M. Georganopoulos, A. Marcowith, K. Manolakou, 2008-01-11 1 1 Schematic Picture of AGN. Some galaxies are known to emit radiation with extremely high luminosities from a rather small volume in the ray, X-ray, and UV continuum. Such active cores are the so-called Active Galactic Nuclei (AGN), and the radiation is commonly believed to be a result of gravitational energy released by matter spiraling around a supermassive central black hole of about  $10^6 M_\odot$  (see Fig. 1). Though the central engine which produces the enormous observed activity cannot be resolved

observationally a standard picture of an AGN has gradually emerged to explain the richness of the radiation spectra an accretion disk with radius from about 2 to 100 gravitational radii  $R_g$  feeding the central black hole and emitting mainly in the UV and soft X rays the broad line optically emitting clouds BLR which seem to be absent in 3 some sources e.g. FRI see hereafter and extend up to a few 10  $R_g$  from the center

**Astrophysics** James Binney, 2016 Astrophysics is said to have been born when Isaac Newton saw an apple drop in his orchard and had the electrifying insight that the Moon falls just like that apple James Binney shows how the application of physical laws derived on Earth allows us to understand objects that exist on the far side of the Universe

**Astrophysical Flows** James E. Pringle, Andrew King, 2007-04-26 Almost all conventional matter in the Universe is fluid and fluid dynamics plays a crucial role in astrophysics This graduate textbook first published in 2007 provides a basic understanding of the fluid dynamical processes relevant to astrophysics The mathematics used to describe these processes is simplified to bring out the underlying physics The authors cover many topics including wave propagation shocks spherical flows stellar oscillations the instabilities caused by effects such as magnetic fields thermal driving gravity shear flows and the basic concepts of compressible fluid dynamics and magnetohydrodynamics The authors are Directors of the UK Astrophysical Fluids Facility UKAFF at the University of Leicester and editors of the Cambridge Astrophysics Series This book has been developed from a course in astrophysical fluid dynamics taught at the University of Cambridge It is suitable for graduate students in astrophysics physics and applied mathematics and requires only a basic familiarity with fluid dynamics

*Stars and Relativity* Ya. B. Zel'dovich, I. D. Novikov, 2014-06-10 Two of the greatest astrophysicists of the 20th century explore general relativity properties of matter under astrophysical conditions stars and stellar systems A valuable resource for physicists astronomers graduate students 1971 edition

**Relativistic Hydrodynamics** Luciano Rezzolla, Olindo Zanotti, 2013-09-26 Relativistic hydrodynamics is a very successful theoretical framework to describe the dynamics of matter from scales as small as those of colliding elementary particles up to the largest scales in the universe This book provides an up to date lively and approachable introduction to the mathematical formalism numerical techniques and applications of relativistic hydrodynamics The topic is typically covered either by very formal or by very phenomenological books but is instead presented here in a form that will be appreciated both by students and researchers in the field The topics covered in the book are the results of work carried out over the last 40 years which can be found in rather technical research articles with dissimilar notations and styles The book is not just a collection of scattered information but a well organized description of relativistic hydrodynamics from the basic principles of statistical kinetic theory down to the technical aspects of numerical methods devised for the solution of the equations and over to the applications in modern physics and astrophysics Numerous figures diagrams and a variety of exercises aid the material in the book The most obvious applications of this work range from astrophysics black holes neutron stars gamma ray bursts and active galaxies to cosmology early universe hydrodynamics and phase transitions and particle physics heavy ion collisions It

is often said that fluids are either seen as solutions of partial differential equations or as wet. Fluids in this book are definitely wet but the mathematical beauty of differential equations is not washed out. **Theory Of Transonic Astrophysical Flows** Sandip Kumar Chakrabarti, 1990-06-27 This book presents methods of studying transonic flows applicable to various astrophysical circumstances. This is the first book of its kind and efforts have been made to be as thorough as possible. It gives complete mathematical solutions for the study in this area including various shock transitions. For any theoretical astrophysicist, this book is expected to be very useful as the formalism discussed can be applied to all the branches. Both axisymmetric and non axisymmetric flows are studied. **Relativistic Fluids and Magneto-fluids** Angelo Marcello Anile, 1989 This highly acclaimed series of monographs provides introductory accounts of specialized topics in mathematical physics for graduate students and research workers. The monographs in this series are of outstanding scholarship and written by those at the very frontiers of research. Subject areas covered include cosmology, astrophysics, relativity theory, particle physics, quantum theory, nuclear physics, statistical mechanics, condensed matter physics, plasma physics, and the theory of chaos.

**Simulating Hamiltonian Dynamics** Benedict Leimkuhler, Sebastian Reich, 2004 Geometric integrators are time stepping methods designed such that they exactly satisfy conservation laws, symmetries, or symplectic properties of a system of differential equations. In this book, the authors outline the principles of geometric integration and demonstrate how they can be applied to provide efficient numerical methods for simulating conservative models. Beginning from basic principles and continuing with discussions regarding the advantageous properties of such schemes, the book introduces methods for the N body problem, systems with holonomic constraints, and rigid bodies. More advanced topics treated include high order and variable stepsize methods, schemes for treating problems involving multiple time scales, and applications to molecular dynamics and partial differential equations. The emphasis is on providing a unified theoretical framework as well as a practical guide for users. The inclusion of examples, background material, and exercises enhance the usefulness of the book for self instruction or as a text for a graduate course on the subject.

**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.

**Unsolved Problems in Astrophysics** John N. Bahcall, Jeremiah P. Ostriker, 1997-02-06 The field of astrophysics is in the midst of a technological renaissance. The emphasis of this collection of essays, composed by a stellar group of astronomers and astrophysicists, is on the current state of our knowledge as a preparation for future unraveling of more mysteries of the universe which appear most amenable to solution. Aspiring astrophysicists will be enthralled. **Relativistic Cosmology** George F. R. Ellis, Roy Maartens, Malcolm A. H. MacCallum, 2012-03-22 Surveying key developments and open issues in cosmology for graduate students and researchers, this book focuses on the general concepts and relations that underpin the standard model of the

Universe It also examines anisotropic and inhomogeneous models and deeper issues such as quantum cosmology and the multiverse proposal

**Astrophysics Processes** Hale Bradt, 2008-09-25 Bridging the gap between physics and astronomy textbooks this book provides step by step physical and mathematical development of fundamental astrophysical processes underlying a wide range of phenomena in stellar galactic and extragalactic astronomy The book has been written for upper level undergraduates and beginning graduate students and its strong pedagogy ensures solid mastery of each process and application It contains over 150 tutorial figures numerous examples of astronomical measurements and 201 exercises Topics covered include the Kepler Newton problem stellar structure binary evolution radiation processes special relativity in astronomy radio propagation in the interstellar medium and gravitational lensing Applications presented include Jeans length Eddington luminosity the cooling of the cosmic microwave background CMB the Sunyaev Zeldovich effect Doppler boosting in jets and determinations of the Hubble constant This text is a stepping stone to more specialized books and primary literature Password protected solutions to the exercises are available to instructors at [www.cambridge.org](http://www.cambridge.org) 9780521846561

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manual available only to professors      **Compact Objects in Astrophysics** Max Camenzind, 2007-02-24 Modern comprehensive introduction and overview of the physics of White Dwarfs Neutron Stars and Black Holes including all relevant observations Contains a basic introduction to General Relativity including the modern 3+1 split of spacetime and of Einstein's equations The split is used for the first time to derive the structure equations for rapidly rotating neutron stars and Black Holes Detailed discussions and derivations of current theoretical results In particular also the most recent equations of state for neutron star matter are explained Topics such as colour superconductivity are discussed and used for modelling A book for graduate students and researchers Contains exercises and some solutions      Astrophysics In The Xxi Century With Compact Stars Cesar Augusto Zen Vasconcellos, Fridolin Weber, 2022-10-25 There are reasons to believe the 21st century will be the best ever for astrophysics the James Webb Space Telescope will extend nearly twenty times the present observational limit of visible light neutrino massiveness opens a new window for exploration on dark energy and dark matter physics and is expected to provide insights into the fate of the Universe the Higgs boson may allow for an understanding of the weakness of gravity gravitational waves produced at the birth of the Universe and by compact stellar objects supermassive black holes black hole neutron star mergers gamma ray bursts white dwarf inspirals have unveiled a new area of astronomy Against this background compact stars the theme of this volume present unique astrophysical laboratories for probing the fabric of space time and the building blocks of matter and their interactions at physical regimes not attainable in terrestrial laboratories

Astrophysical Jets and Their Engines Wolfgang Kundt, 1987-07-31 This volume is the documentation of the first Course on Neutron Stars Active Galactic Nuclei and Jets of an Erice School with a wide astrophysical scope The choice of the subject was made because of an apparent similarity stressed already at earlier meetings of four classes of astrophysical jet sources Active Galactic Nuclei Young Stellar Objects Binary Neutron Stars and Binary White Dwarfs They share important properties such as their morphology high variability and large velocity gradients as well as with some inference their broad spectrum hypersonic outflow and core lobe power ratio Despite this apparent similarity of the four source classes quite different models have been put forward for their description i The central engine of active galactic nuclei has been generally thought to be a black hole in contrast to the central engine of young stellar objects and cometary nebulae which apparently is a pre-T Tauri star some six orders of magnitude less compact and to the central engine of planetary nebulae which may or may not be a binary white dwarf ii The elongated lobes or flow patterns have been often interpreted as highly directional stellar wind outflows whereas in a few well mapped cases the elongated flow appears to be pumped up through a much narrower channel or jet both in the extragalactic and stellar sources      Rotation and Accretion Powered Pulsars Pranab Ghosh, 2007 This book is an introduction to pulsars a key area in high energy astrophysics with continuing potential for fundamental discoveries Throughout the book runs the unifying thread of the evolutionary link between rotation powered pulsars and accretion powered pulsars OCo a milestone of modern astrophysics Early textbooks on pulsars dealt almost entirely with rotation

powered ones while accounts of pulsars in volumes on X ray binaries focused almost exclusively on accretion powered ones This is the first textbook to treat these two kinds of pulsars simultaneously with equal importance stressing the fact that both are rotating magnetic neutron stars operating under different conditions during different parts of their lives It describes the observational properties of both kinds of pulsars summarizes our physical understanding of these properties and pays detailed attention to the physics of superdense matter which neutron stars are composed of as well as to the superfluidity which is expected to occur in neutron stars Evolution from rotation power to accretion power and vice versa are carefully described The effects of the strong magnetic fields of neutron stars on themselves their emission properties and their environments are discussed as are the origin and evolution of such magnetic fields Also treated is the superbly accurate verification of Einstein s theory of general relativity through timing studies of binary pulsars which led to the award of the Nobel Prize to Hulse and Taylor in 1993 On each topic the book starts with simple basic physical concepts and builds up the exposition to the point where the latest and most exciting developments become accessible to the reader

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