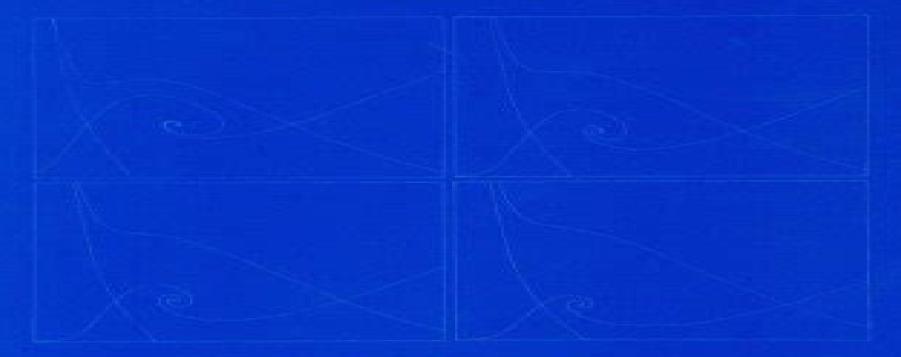
# THEORY OF TRANSONIC ASTROPHYSICAL FLOWS

Sandip K. Chakrabarti



World Scientific

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# **Theory Of Transonic Astrophysical Flows**

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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 Accretion Disks 2 Wolfgang J. Duschl, Juhan Frank, F. Meyer, Emmi Meyer-Hofmeister, Werner M. Tscharnuter, 1994 Accretion disks in astrophysics represent the characteristic flow by which compact bodies accrete mass from their environment Their intrinsically high luminosity and recent progress in observational accessibility at all wavelength bands have led to rapidly growing awareness of their importance and made them the object of intense research on widely different scales ranging from binary stars to young stellar objects and active galactic nuclei This book contains the proceedings of the NATO Advanced Workshop on Theory of Accretion Disks 2 for which some of the most active researchers in the different fields came together at the Max Planck Institut for Astrophysics in Garching in March 1993 Its reviews and contributions give an up to date account of the present status of our understanding and provide a stimulating challenge in discussions of open questions in a rapidly developing field Publications of the Astronomical Society of Japan Nihon Tenmon Gakkai,1996 Scientific and Technical Aerospace Reports ,1989 IMSc Report Gravitation and Cosmology S. Mukherjee, A. R. Prasanna, Ajit K. Kembhavi, 1992 **Accretion Phenomena and** ,1995 Related Outflows Dayal T. Wickramasinghe, Geoffrey V. Bicknell, Lilia Ferrario, 1997 Physics, Uspekhi ,1997 Seventeenth Texas Symposium on Relativistic Astrophysics and Cosmology Hans Böhringer, G. E. Morfill, Joachim Truemper, 1995 This text which results from ag major astrophysics convocations treats such subjects as binary pulsars clusters of galaxies large scale structures recent highlights of HST sources of gravitational radiation X and gamma background Machos and dark matter the solar neutrino problem guasar absorption lines inflationary cosmology particle physics and cosmology recent highlights of GRO galactic centers COBE results high redshift quasars quantum gravity recent

highlights from ASCA and ROSAT supernovae and cosmic rays at high energies **High Energy Astronomy and Astrophysics** P. C. Agrawal, P. R. Vishwanath, 1998 This book contains a collection of papers by about thirty contibutors in the proceedings perspectives in High Energy Astronomy An International colloquium to Commemorate the Golden Jubilee of Bulletin of the Astronomical Society of India Astronomical Society of India, 2007 *Proceedings of the Eleventh* Marcel Grossmann Meeting on General Relativity Hagen Kleinert, Robert T. Jantzen, Remo Ruffini, 2008 The Marcel Grossman Meetings are three yearly forums that meet to discuss recent advances in gravitation general relativity and relativistic field theories emphasizing their mathematical foundations physical predictions and experimental tests These meetings aim to facilitate the exchange of ideas among scientists to deepen our understanding of space time structures and to review the status of ongoing experiments and observations testing Einstein's theory of gravitation either from ground or space based experiments Since the first meeting in 1975 in Trieste Italy which was established by Remo Ruffini and Abdus Salam the range of topics presented at these meetings has gradually widened to accommodate issues of major scientific interest and attendance has grown to attract more than 900 participants from over 80 countries. This proceedings volume of the eleventh meeting in the series held in Berlin in 2006 highlights and records the developments and applications of Einstein's theory in diverse areas ranging from fundamental field theories to particle physics astrophysics and cosmology made possible by unprecedented technological developments in experimental and observational techniques from space ground and underground observatories It provides a broad sampling of the current work in the field especially relativistic astrophysics including many reviews by leading figures in the research community The Cumulative Book Index ,1991 A world list of books in the English language Linear Independence of Logarithms of Algebraic Numbers Michel Waldschmidt, 1996

The Second Compton Symposium N. Gehrels, J.P. Norris, C.E. Fichtel, 1998-03-19 Annotation Proceedings of a conference held in College Park Maryland in September 1993 Papers discuss results from the Compton Gamma Ray Observatory in orbit since 1991 Presentations are divided into sections on opening remarks spin powered pulsars nucleosynthesis galactic sources galactic center cosmic rays and galactic diffusion radiation agn seyferts agn quasars and bl lacs and analysis and instrumentation No index Annotation c by Book News Inc Portland Or Physics Briefs ,1992

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