



Principles of Astrophysical Fluid Dynamics

E. J. Clarke and R. F. Carswell

Astrophysical Fluid Dynamics

Michael John Thompson



Astrophysical Fluid Dynamics:

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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

Fluid Dynamics and Dynamos in Astrophysics and Geophysics Andrew M. Soward, Christopher A.

Jones, David W. Hughes, Nigel O. Weiss, 2005-03-16 The increasing power of computer resources along with great improvements in observational data in recent years have led to some remarkable and rapid advances in astrophysical fluid dynamics The subject spans three distinct but overlapping communities whose interests focus on 1 accretion discs and high energy astrophysics 2 solar stellar and *Astrophysical Fluid Dynamics* Jean-Paul Zahn, Jean Zinn-Justin, 1993 This book aims to lay the basis of astrophysical fluid dynamics and the topics treated cover various aspects of this discipline These include the essential properties of turbulence dynamical systems the effects of magnetic fields significant in the sun including magnetohydrodynamics in general and dynamo theories the use of numerical simulation to explore the behavior of thermal convection in a highly stratified medium stellar pulsations The resulting book is intended as both a manual for the graduate student as well as for the seasoned scientist *Astrophysical Hydrodynamics* Steven N. Shore, 2007-09-04 This latest edition of the proven and comprehensive treatment on the topic from the bestselling author of *Tapestry of Modern Astrophysics* has been updated and revised to reflect the newest research results Suitable for AS0000 and AS0200 courses as well as advanced astrophysics and astronomy lectures this is an indispensable theoretical backup for studies on celestial body formation and astrophysics Includes exercises with solutions **Stellar Astrophysical Fluid Dynamics** Michael J. Thompson, Jørgen Christensen-Dalsgaard, 2003-05-01 In all phases of the life of a star hydrodynamical processes play a major role This volume gives a comprehensive overview of the state of knowledge in stellar astrophysical fluid dynamics and its publication marked the 60th birthday of Douglas Gough Professor of Theoretical Physics at the University of Cambridge and leading contributor to stellar astrophysical fluid dynamics Topics include properties of pulsating stars helioseismology convection and mixing in stellar interiors dynamics of stellar rotation planet formation and the generation of stellar and planetary magnetic fields Each chapter is written by leading experts in the field and the book provides an overview that is central to any attempt to understand the properties of stars and their evolution With extensive references to the technical literature this is a valuable text for researchers and graduate students in stellar astrophysics **Fluid Dynamics** Michel Rieutord, 2014-12-26 This book is dedicated to readers who want to learn fluid dynamics from the beginning It assumes a basic level of mathematics knowledge that would correspond to that of most second year undergraduate physics students and examines fluid dynamics from a physicist's perspective As such the examples used primarily come from our environment on Earth and where possible from astrophysics The text is arranged in a progressive and educational format aimed at leading readers from the simplest basics to more complex matters like turbulence and magnetohydrodynamics Exercises at the end of each chapter help readers to test their understanding of the subject solutions are provided at the end of the book and a special chapter is devoted to introducing selected aspects of mathematics that beginners may not be familiar with so as to make the book self contained **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.

[Introduction to Fluid Dynamics in Physics and Astrophysics](#) Hendrik Jan van Eerten, 2024-01-25. This textbook provides an accessible and self-contained introduction to the physics behind fluid dynamics, exploring the laws of nature describing three out of four fundamental states of matter: liquids, gases, and plasmas. Based on years of teaching of fluid dynamics theory and computation at advanced undergraduate level, it provides readers with the tools to understand and model fluid dynamical systems across a wide range of applications, from dense liquids to dilute space plasmas. The book covers the principles of fluid dynamics for an audience without prior exposure to fluid dynamics, specifically. Discussion of relevant vector algebra, thermodynamics, and electromagnetism is included to ensure that the book is accessible both to readers experienced in these topics and readers starting from a basic understanding. Example applications are drawn both from astrophysics and physics, touching upon topical research such as relativistic blast waves from neutron star mergers and the implications of plasma nature of the atmosphere for present and future radio observatories. These are contrasted and complemented with examples from general physics, e.g. contrasting the incompressible nature of water with the dilute interstellar medium. It is an ideal textbook for advanced undergraduates studying the topic and will provide a solid foundation for further postgraduate studies into fluid dynamics in physics or astrophysics.

Key Features: Introduction to fluid dynamics pitched at advanced undergraduate level, accessible to students who are still learning relevant mathematical techniques. Includes over 60 exercises and selected worked solutions, in addition to timely examples and easily accessible numerical demonstrations written in C and Python for readers to experiment with. https://github.com/hveerten/code_fluid_dynamics_book. Up-to-date selection of topics including fluid dynamics in special relativity and computational fluid dynamics, written by an expert in the field. The book covers all that is needed to independently write a finite volume solver for Euler's equations and/or reproduce the provided Python and C software. Covers a wide range of applications in astrophysics, including first-order Fermi acceleration in shocks, accretion discs, self-similarity in cosmic explosions, and interstellar turbulence.

[Nonlinear Astrophysical Fluid Dynamics](#) J. Robert Buchler, Stephen T. Gottesman, 1990. **The Physics of Astrophysics** Frank H. Shu, 1991. This two-volume text is for new graduates on astronomy courses who need to get to grips with the physics involved in the subject. Four problem sets, averaging three

problems per set accompany each volume. The problems expand on the material covered in the texts and represent the level of calculational skill needed to write scientific papers in contemporary astrophysics.

Modern Fluid Dynamics for Physics and Astrophysics Oded Regev, Orkan M. Umurhan, Philip A. Yecko, 2016-05-11. This book grew out of the need to provide students with a solid introduction to modern fluid dynamics. It offers a broad grounding in the underlying principles and techniques used with some emphasis on applications in astrophysics and planetary science. The book comprehensively covers recent developments, methods and techniques including for example new ideas on transitions to turbulence via transiently growing stable linear modes, new approaches to turbulence which remains the enigma of fluid dynamics, and the use of asymptotic approximation methods which can give analytical or semi-analytical results and complement fully numerical treatments. The authors also briefly discuss some important considerations to be taken into account when developing a numerical code for computer simulation of fluid flows. Although the text is populated throughout with examples and problems from the field of astrophysics and planetary science, the text is eminently suitable as a general introduction to fluid dynamics. It is assumed that the readers are mathematically equipped with a reasonable knowledge in analysis including basics of ordinary and partial differential equations and a good command of vector calculus and linear algebra. Each chapter concludes with bibliographical notes in which the authors briefly discuss the chapter's essential literature and give recommendations for further deeper reading. Included in each chapter are a number of problems, some of them relevant to astrophysics and planetary science. The book is written for advanced undergraduate and graduate students but will also prove a valuable source of reference for established researchers.

Principles of Astrophysical Fluid Dynamics Catherine Jane Clarke, 2007. This textbook introduces the necessary fluid dynamics to understand a wide range of astronomical phenomena from stellar structures to supernovae, blast waves to accretion discs. The authors introduce and derive the fundamental equations.

An Introduction to Astrophysical Fluid Dynamics Michael John Thompson, 2010. This book provides an introduction for graduate students and advanced undergraduate students to the field of astrophysical fluid dynamics. No previous knowledge of fluid dynamics is assumed. After establishing the basic equations of fluid dynamics and the physics relevant to an astrophysical application, a variety of topics in the field are addressed. There is also a chapter introducing the reader to numerical methods. Appendices list useful physical constants and astronomical quantities and provide handy reference material on Cartesian tensors, vector calculus in polar coordinates, self-adjoint eigenvalue problems, and JWKB theory. The second edition contains expanded material and includes exercises.

Geophysical and Astrophysical Fluid Dynamics, 1992. **Topics in Astrophysical Fluid Dynamics** Christopher Andrew Jones, University of Cambridge, Department of Applied Mathematics and Theoretical Physics, 1975.

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

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