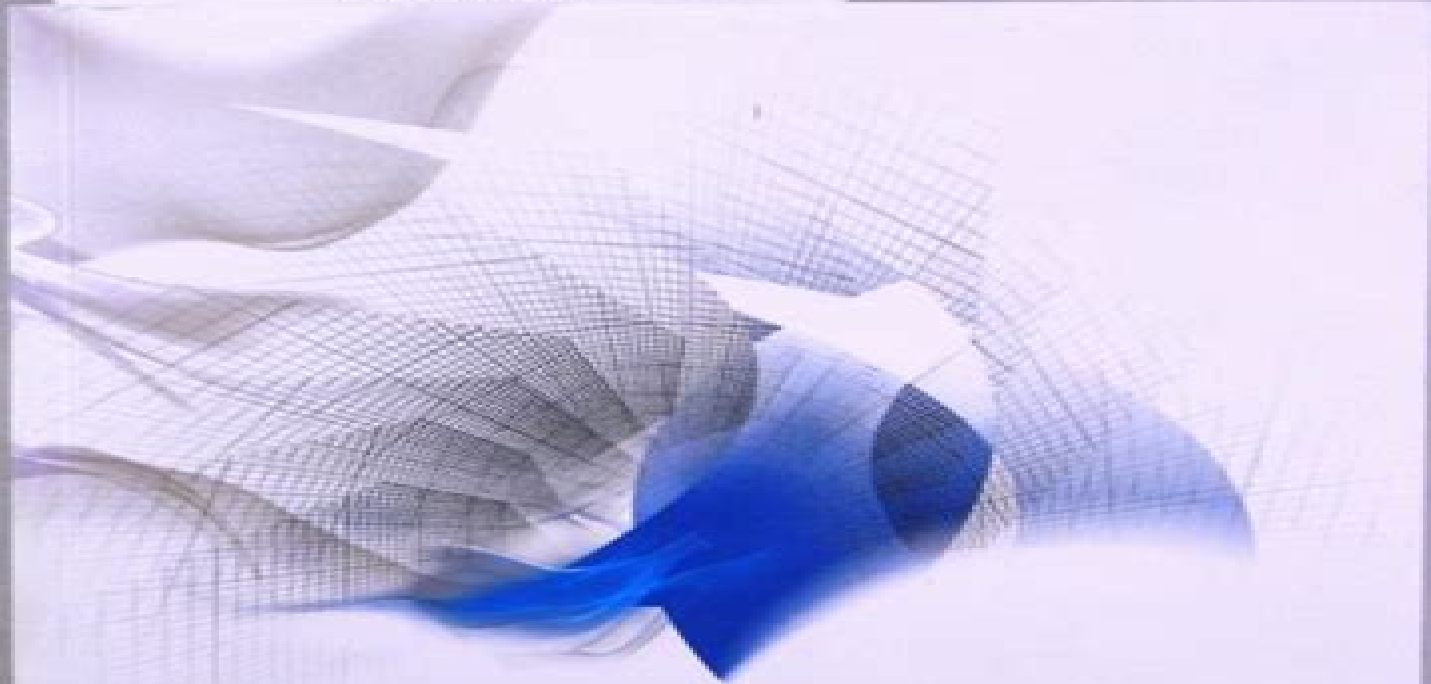




An Introduction to Astrophysical Fluid Dynamics

Michael J Thompson

Imperial College Press

An Introduction To Astrophysical Fluid Dynamics

Arnab Rai Choudhuri



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mechanics and plasma physics is essential for the modern astrophysicist This graduate textbook provides a clear pedagogical introduction to these core subjects Assuming an undergraduate background in physics this book develops fluid mechanics and plasma physics from first principles This book is unique because it presents neutral fluids and plasmas in a unified scheme clearly indicating both their similarities and their differences Also both the macroscopic continuum and microscopic particle theories are developed establishing the connections between them Throughout key examples from astrophysics are used though no previous knowledge of astronomy is assumed Exercises are included at the end of chapters to test the reader's understanding This textbook is aimed primarily at astrophysics graduate students It will also be of interest to advanced students in physics and applied mathematics seeking a unified view of fluid mechanics and plasma physics encompassing both the microscopic and macroscopic theories *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 *Astrophysical Fluid Dynamics* E. Battaner,1996-02-23

This first course in fluid dynamics covers the basics and introduces a wealth of astronomical applications 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.

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 an 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.

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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

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

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

Baryonic Processes in the Large-Scale Structuring of the Universe Jean-Baptiste Durrive, 2017-07-20 This thesis addresses two very different but equally important topics in the very broad fields of astrophysics and cosmology I the generation of cosmological magnetic fields and II gravitational fragmentation of the Cosmic Web All mathematical developments are completed by illuminating physical interpretations and the thesis which is guided by existing observations is purely theoretical In part I the author further develops a magnetogenesis model proposed in the literature providing an unprecedented level of physical understanding He demonstrates that the physics of photoionisation is very likely to have premagnetised at a relevant level the entire Universe at the early epoch of the formation of the first

luminous sources In part II the author adapts the tools of plasma spectral theory to the context of gravitational instability of the baryonic gas within the stratified structures of the Cosmic Web He skillfully derives the wave equation governing the growth of perturbations and explores various equilibrium configurations in planar and cylindrical geometries characteristic of cosmic walls and filaments for isothermal and polytropic conditions with or without an external gravitational background Clearly structured and written in pedagogical style this outstanding thesis puts the results into perspective and highlights the merits and limitations of the various approaches explored

Physics of Fluids Roberto A. Capuzzo Dolcetta, 2023-07-25 This book is exceptional in providing an up to date but compact introduction to the field of hydrodynamics and fluid dynamics that is both sufficiently comprehensive and easy to read It covers all the elements of compressible and incompressible fluid dynamics from the basic concepts through to the constituent equations and their applications Fluid flows in different environments are thoroughly discussed and specific aspects such as dissipation turbulence shock waves and blast waves receive detailed attention The book contains many exercises and draws attention to numerical solutions to specific problems The book is ideal for undergraduate and graduate students and young researchers in physics astrophysics mathematics pure and applied and engineering As this book is intended for a wide audience the mathematical prerequisites are kept to a low level

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

Magnetohydrodynamics J. P. Goedbloed, Hans Goedbloed, Rony Keppens, Stefaan Poedts, 2019-01-31 An introduction to magnetohydrodynamics combining theory with advanced topics including the applications of plasma physics to thermonuclear fusion and plasma astrophysics

Theory, Numerics and Applications of Hyperbolic Problems II Christian Klingenberg, Michael Westdickenberg, 2018-06-27 The second of two volumes this edited proceedings book features research presented at the XVI International Conference on Hyperbolic Problems held in Aachen Germany in summer 2016 It focuses on the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models PDEs of mixed type kinetic equations nonlocal or and discrete models found in the field of applied sciences

Hydrodynamics and Stellar Winds Walter J. Maciel, 2014-02-11 Introduces hydrodynamics to undergraduate students in physics and astrophysics Stellar winds are a common phenomenon in the life of stars from the dwarfs like the Sun to the red giants and hot supergiants constituting one of the basic aspects of modern astrophysics Stellar winds are a hydrodynamic phenomenon in which circumstellar gases expand towards the interstellar medium This book presents an elementary introduction to the fundamentals of hydrodynamics with an application to the study of stellar winds The principles of hydrodynamics have many other applications so that the book can be used as an introduction to hydrodynamics for students of physics astrophysics and other related areas

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