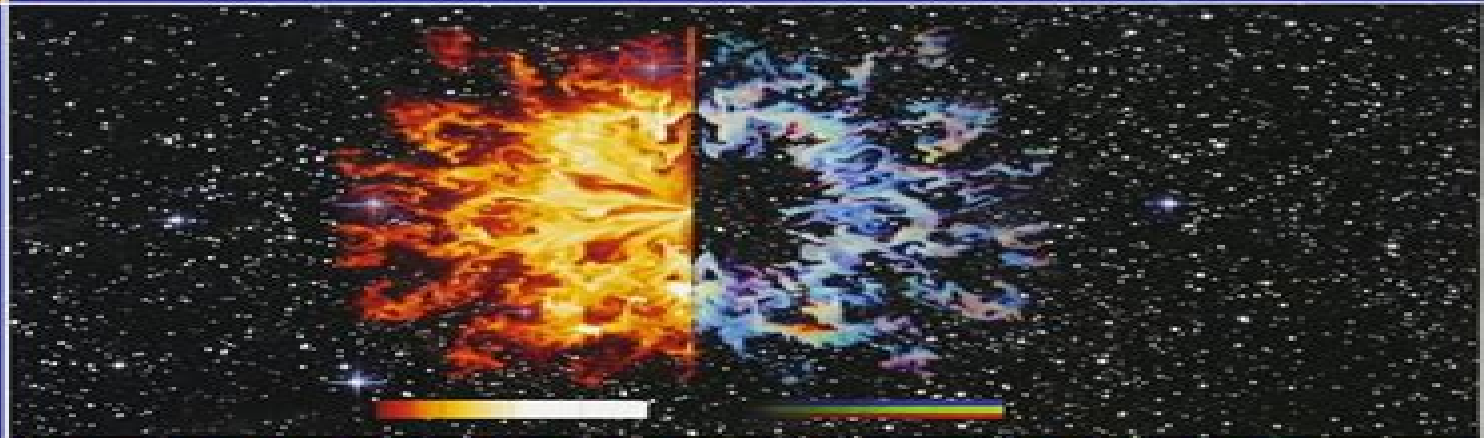


SERIES IN ASTRONOMY AND ASTROPHYSICS



NUMERICAL METHODS IN ASTROPHYSICS

An Introduction

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Handbook of Numerical Methods for Hyperbolic Problems Remi Abgrall, Chi-Wang Shu, 2017-01-16 Handbook on Numerical Methods for Hyperbolic Problems Applied and Modern Issues details the large amount of literature in the design analysis and application of various numerical algorithms for solving hyperbolic equations that has been produced in the last several decades This volume provides concise summaries from experts in different types of algorithms so that readers can find a variety of algorithms under different situations and become familiar with their relative advantages and limitations Provides detailed cutting edge background explanations of existing algorithms and their analysis Presents a method of different algorithms for specific applications and the relative advantages and limitations of different algorithms for engineers or those involved in applications Written by leading subject experts in each field the volumes provide breadth and depth of content coverage

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Nuclear Astrophysics Md A. Khan, 2018-02-13 In this volume the physics involved in various astrophysical processes like the synthesis of light and heavier elements explosive burning processes core collapse supernova etc have been critically addressed with minimum mathematical derivations so as to suit all faculties of the readers For graduate students there are solved problems with exercises at the end of each chapter for researchers some recent works on the calculation of physical parameters of astrophysical importance like the calculation of S factors at low energies have been included and for amateur readers there are lot of history information and discussion on the astronuclear phenomenon Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

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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.

Introduction to Computational Physics for Undergraduates Omair Zubairi, Fridolin Weber, 2018-04-04 This is an introductory textbook on computational methods and techniques intended for undergraduates at the sophomore or junior level in the fields of science, mathematics and engineering. It provides an introduction to programming languages such as FORTRAN 90, 95, 2000 and covers numerical techniques such as differentiation, integration, root finding and data fitting. The textbook also entails the use of the Linux/Unix operating system and other relevant software such as plotting programs, text editors and mark up languages such as LaTeX. It includes multiple homework assignments.

Computational Fluid Dynamics T. J. Chung, 2002-02-07 Increasingly computational fluid dynamics (CFD) techniques are being used to study and solve complex fluid flow and heat transfer problems. This comprehensive book ranges from elementary concepts for the beginner to state of the art CFD for the practitioner. It begins with CFD preliminaries in which the basic principles of finite difference (FD), finite element (FE) and finite volume (FV) methods are discussed and illustrated through examples with step by step hand calculations. Then FD and FE methods respectively are covered including both historical developments and recent contributions. The next section is devoted to structured and unstructured grids, adaptive methods, computing techniques and parallel processing. Finally the author describes a variety of practical applications to problems in turbulence, reacting flows and combustion, acoustics, combined mode radiative heat transfer, multiphase flows, electromagnetic fields and relativistic astrophysical flows. Students and practitioners particularly in mechanical, aerospace, chemical and civil engineering will use this authoritative text to learn about and apply numerical techniques to the solution of fluid dynamics problems.

Mathematical Modeling and Supercomputer Technologies Dmitry Balandin, Konstantin Barkalov, Victor Gergel, Iosif Meyerov, 2021-06-23 This book constitutes selected and revised papers from the 20th International Conference on Mathematical Modeling and Supercomputer Technologies (MMST 2020) held in Nizhny Novgorod, Russia, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 25 full papers and 8 short papers presented in the volume were thoroughly reviewed and selected from the 106 submissions. They are organized in topical sections on computational methods for mathematical models, analysis, computation in optimization and optimal control, supercomputer simulation.

The Interstellar Medium, Expanding Nebulae and Triggered Star Formation Thomas G. Bisbas, 2015-11-24 This brief brings together the theoretical aspects of star formation and ionized regions with the most up to date simulations and observations. Beginning with the basic theory of star formation, the physics of expanding HII regions is

reviewed in detail and a discussion on how a massive star can give birth to tens or hundreds of other stars follows The theoretical description of star formation is shown in simplified and state of the art numerical simulations describing in a more clear way how feedback from massive stars can trigger star and planet formation This is also combined with spectacular images of nebulae taken by talented amateur astronomers The latter is very likely to stimulate the reader to observe the structure of nebulae from a different point of view and better understand the associated star formation therein **Facets of**

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Dongarra, 2004-05-25 The International Conference on Computational Science ICCS 2004 held in Krak ow Poland June 6-9 2004 was a follow up to the highly successful ICCS 2003 held at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco USA As computational science is still evolving in its quest for subjects of investigation and efficient methods ICCS 2004 was devised as a forum for scientists from mathematics and computer science as the basic computing disciplines and application areas interested in advanced computational methods for physics chemistry life sciences engineering arts and humanities as well as computer system vendors and software developers The main objective of this conference was to discuss problems and solutions in all areas to identify new issues to shape future directions of research and to help users apply various advanced computational techniques The event harvested recent developments in computational grids and next generation computing systems tools advanced numerical methods data driven systems and novel application fields such as complex systems nanotechnology physics and population evolution

Current Trends in Relativistic Astrophysics Leonardo Fernández-Jambrina, Luis Manuel González-Romero, 2008-01-11 The present volume contains the expanded lectures of a meeting on relativistic astrophysics the goal of which was to provide a modern introduction to specific aspects of the field for young researchers as well as for nonspecialists from related areas Particular emphasis is placed on the theory of black holes and evolution relativistic stars and jet hydrodynamics as well as the production and detection of gravitational waves The book is complemented by further contributions and animation supplied on the accompanying CD ROM

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