The Numerical Modelling of
Nonlinear Stellar Pulsations
Problems and Prospects

Edited by

J. Robert Buchler

Numerical Modelling Of Nonlinear Stellar Pulsations

Thirumalaisamy P. Velavancorresponding

Numerical Modelling Of Nonlinear Stellar Pulsations:

  The Numerical Modelling of Nonlinear Stellar Pulsations J. Robert Buchler,2012-12-06 This interdisciplinary meeting has brought together a group of astrophysicists with hands on experience in the numerical computation of astrophysical fluid dynamics in particular nonlinear stellar pulsations and a group of applied mathematicians who are actively engaged with the development of novel and improved numerical methods The goal of the workshop has been for the astrophysicists to discuss in detail the numerical problems encountered in the modelling of stellar pulsations and for the mathematicians to present a survey of recent developments in numerical techniques This astrophysical mathematical intercourse will help the astrophysicists in the future development of more reliable and efficient codes on the one hand and it has introduced the mathematicians to an unfamiliar area which is a tough testing ground for their techniques Since the difficulties encountered are common to other fluid dynamics problems and are in fact perhaps more severe fluid dynamicists in other research areas may fmd the results of this workshop of interest as well Much of our theoretical understanding of the intricate and interesting behavior of variable stars rests on our ability to perform accurate numerical hydrodynamical computations of stellar models Extensive calculations of nonlinear radial stellar pulsations with the use of increasingly powerful computers are showing more and more clearly that the numerical codes in current use have serious deficiencies   **Mercury** A. Balogh,Leonid Ksanfomality,Rudolf von Steiger,2008-02-23 This fascinating book reviews the progress made in Mercury studies since the flybys by Mariner 10 in 1974 75 Thus far it is the only book on Mercury which balances a wide range of Earth based observations made under difficult conditions with the only available space based data The text is based on continued research using the Mariner 10 archive on observations from Earth and on increasingly realistic models of this mysterious planet s interior evolution   *New Perspectives on Stellar Pulsation and Pulsating Variable Stars* James M. Nemec,Jaymie M. Matthews,1993-10-21 How can the interior of the Sun white dwarfs and other stars be studied by stellar seismology What can Doppler imaging tell us about high degree pulsations What impact are CCD and infrared observations having on extending the Cepheid and RR Lyrae distance scale And how are other classes of pulsators providing independent checks of the distance scale These and many other critical questions are answered in this timely review of the dramatic advances made in pulsating star research in the last decade This survey collects together more than thirty comprehensive reviews and over one hundred summaries of research papers from the 139th IAU Colloquium held in Victoria British Columbia Together these cover all aspects of recent developments in the field of variable star research and preview some of the exciting advances anticipated for the next decade This volume provides an essential review for graduate students and researchers   *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   Dark Matter in the Universe Società italiana di fisica,1996 Physics and astrophysics came to dark matter through many different routes finally accepting it but often with some distaste It has been noticed that the existence of dark matter is yet another displacement of humans from the centre of the Universe not only do our planet and our sun have no central position in the Universe not only are humans just animals although with a specialized central nervous system but even the material of which we are made is only a marginal component of the cosmic substance If this is the right attitude to take scientists feeling distaste for dark matter are much like Galileo Galilei s colleagues who refused to look through the telescope to watch the Medici planets Nevertheless astronomers when required to take a ballot in favour of some cosmological model often still vote for pure baryonic with substantial majorities although most cosmologists assume that a cold component of dark matter plays a role in producing the world as we observe it Among the many subjects covered by the book particular emphasis was given to 1 summarizing the current status of the observations both of the distribution of the nearby galaxies and of the evolution of more distant galaxies 2 advanced statistical techniques for quantifying structure in galaxy redshift and peculiar velocity surveys 3 the art of cosmic inflation and models for dark matter candidates and their implications for cosmic microwave background observations 4 implications of cold dark matter variants for large scale structure as worked out both by quasi linear techniques and by fully nonlinear simulations and 5 Eulerian and Lagrangian approximations for treating the nonlinear dynamics   Landslides and Engineered Slopes. Experience, Theory and Practice Stefano Aversa,Leonardo Cascini,Luciano Picarelli,Claudio Scavia,2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12 19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subareal and submarine landslide processes and hazard and in a Young Session complete the books Landslides and Engineered Slopes Experience Theory and Practice underlines the importance of the classic approach of modern science which moves from experience to theory as the basic instrument to study landslides Experience is the key to understand the natural phenomena focusing on all the factors that play a major role Theory is the instrument to manage the data provided by experience following a mathematical approach this allows not only to clarify the nature and the deep causes of phenomena but mostly to predict future and if required manage similar events Practical benefits from the results of theory to protect people and man made

works Landslides and Engineered Slopes Experience Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics geotechnical engineering engineering geology and geology *High Performance Computing in Science and Engineering '01* Willi Jäger,2002 Physics Simulation of Dislocations in Icosahedral Quasicrystals with IMD Buoyancy Driven Convection in Rotating Spherical Shells and Its Dynamo Action Finite Difference Simulations of Seismic Wavefields in Isotropic and Anisotropic Earth Models Collisional Dynamics of Black Holes Star Clusters and Galactic Nuclei The Computation of Highly Excited Hyperbolic 3D Eigenmodes and Their Application to Quantum Chaos and Cosmology Propagation of Herbig Haro Jets Through Inhomogeneous Molecular Clouds Phase Transitions and Quantum Effects in Systems with Reduced Geometry Probing Hot Quantum Chromodynamics with a Complex Chemical Potential Solid State Physics Destruction of Superfluid and Long Range Order by Impurities in Two Dimensional Systems Density Matrix Algorithm for Phonon Hilbert Space Reduction in the Numerical Diagonalization of Quantum Many Body Systems Single Hole Dynamics in Correlated Insulators Impurities in a Hubbard chain Band to Mott Insulator Transition in the Ionic Hubbard Model GaAs and InAs 001 Surface Structures from Large scale Real space Multigrid Calculations The Role of the Geometric Structure for Electronic Excitations of Molecules and Surfaces Structural and Vibronic Properties of the Dihydride terminated Si 001 Surface Interplay of Phase Fluctuations and Electronic Excitations in High Temperature Superconductors A Monte Carlo Simulation Chemistry Improper Blue shifting Hydrogen Bond Between Fluorobenzene and CHX3 X F C1 Hydrophobic Solvation in Liquid Water Via Car Parrinello Molecular Dynamics Progress and First Results Ab initio Molecular Dynamics Simulation of Hydrogen Fluoride at Several Thermodynamic States Quantum Chemical Calculations of Transition Metal Complexes Computer Simulation of Protein Unfolding Computational Fluid Dynamics DNS of Active Control of Disturbances in a Blasius Boundary Layer Statistical Analysis of a Turbulent Adverse Pressure Gradient Boundary Layer Simulation of Bidisperse Bubbly Gas Liquid Flows by a Parallel Finite Difference Front Tracking Method Vortex Shedding in the Turbulent Wake of a Sphere at Subcritical Reynolds Number Assumed PDF Modeling with Detailed Chemistry A 3D Hydrodynamic Simulation for the Cygnus A Jet as a Prototype for High Redshift Radio Galaxies Parallel Computation of the Time Dependent Velocity Evolution for Strongly Deformed Droplets Simulation of Two Phase Flow in Pipes Computational Study of the Flow in an Axial Turbine with Emphasis on the Interaction of Labyrinth Seal Leakage Flow and Main Flow Numerical Simulation of Rotating Stall in an Axial Compressor Euler and Navier Stokes Solutions for Flapping Wing Propulsion Hindcasting the Uptake of Anthropogenic Trace Gases with an Eddy Permitting Model of the Atlantic Ocean Flow with Chemical Reactions Implementation of Complex Chemical Reaction Mechanisms Into a 3D Furnace Simulation Code Direct Numerical Simulation of Turbulent Flame Kernels Using HPC Direct Numerical Simulations of Spark Ignition of H2 Air Mixture in a Turbulent Flow Detailed Simulation of Transport Processes in Reacting Multi Species Flows Through Complex Geometries by Means of Lattice Boltzmann Methods Structural Mechanics Numerical Modelling of Geotechnical Boundary

Value Problems Wave Propagation in Heterogeneous Media Part 1 Effective Velocities in Fractured Media Wave Propagation in Heterogeneous Media Part 2 Attenuation of Seismic Waves Due to Scattering Computer Science Fast Parallel Particle Simulations on Distributed Memory Architectures High accuracy Simulation of Density Driven Flow in Porous Media ParWave Parallel Wavelet Video Coding Compiler Generated Vector based Prefetching on Architectures with Distributed Memory *The Initial Mass Function 50 Years Later* Edvige Corbelli,Francesco Palla,Hans Zinnecker,2007-10-06 Theideatocelebrate50yearsoftheSalpeterIMFoccurredduringtherecent IAU General Assembly in Sydney Australia Indeed it was from Australia that in July 1954 Ed Salpeter submitted his famous paper The Luminosity Function and Stellar Evolution with the rst derivation of the empirical stellar IMF This contribution was to become one of the most famous astrophysics papers of the last 50 years Here Ed Salpeter introduced the terms original mass function and original luminosity function and estimated the pro bility for the creation of stars of given mass at a particular time now known as the Salpeter Initial Mass Function or IMF The paper was written at the Australian National University in Canberra on leave of absence from Cornell University USA and was published in 1955 as 7 page note in the Astroph ical Journal Vol 121 page 161 To celabrate the 50th anniversary of the IMF along with Ed Salpeter s 80th birthday we have organized a special meeting that brought together scientists involved in the empirical determination of this fundamental quantity in a va ety of astrophysical contexts and other scientists fascinated by the deep imp cations of the IMF on star formation theories on the physical conditions of the gas before and after star formation and on galactic evolution and cosmology The meeting took place in one of the most beautiful spots of the Tuscan countryside far from the noise and haste of everyday life **Multiphysics Modelling of Fluid-Particulate Systems** Hassan Khawaja,Mojtaba Moatamedi,2020-03-18 Multiphysics Modelling of Fluid Particulate Systems provides an explanation of how to model fluid particulate systems using Eulerian and Lagrangian methods The computational cost and relative merits of the different methods are compared with recommendations on where and how to apply them provided The science underlying the fluid particulate phenomena involves computational fluid dynamics for liquids and gases computational particle dynamics solids and mass and heat transfer In order to simulate these systems it is essential to model the interactions between phases and the fluids and particles themselves This book details instructions for several numerical methods of dealing with this complex problem This book is essential reading for researchers from all backgrounds interested in multiphase flows or fluid solid modeling as well as engineers working on related problems in chemical engineering food science process engineering geophysics or metallurgical processing **Physics and Chemistry of Circumstellar Dust Shells** Hans-Peter Gail,Erwin Sedlmayr,2014 This book explores why dust forms around stars and how to model stellar dust formation and dust forming environments consistently <u>Literature 1991, Part 2</u> Astronomisches Rechen-Institut,2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become oneof the fundamental publications in the fields of astronomy astrophysics andneighbouring sciences It is the most important English language

abstracting journal in the mentioned branches The abstrats are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world   **Cellular Automata: Prospects In Astrophysical Applications - Proceedings Of The Workshop On Cellular Automata Models For Astrophysical Phenomena** A Lejeune,J M Perdang,1993-11-23 This book provides a survey of the basic ideas of the cellular automaton CA modelling environment emphasising the relevance of this framework to astrophysical applications It contains introductory level lectures on lattice gases and on CA turbulence diffusion reaction processes percolation and self organised criticality Further it gives a variety of astrophysical applications including stellar oscillations galactic evolution distribution of luminous matter in the universe etc

    Circumstellar Media in Late Stages of Stellar Evolution R. E. S. Clegg,I. R. Stevens,W. P. S. Meikle,1994-08-25 In the last throes of their lives how do low and high mass stars interact with their immediate surroundings How does the circumstellar medium affect the shape of a nebula How are supernovae effected by a dense medium And what do we understand of how stellar winds interact with their environments These and many other exciting issues are addressed in these proceedings from the 34th Herstmonceux conference held in Cambridge Highlights of developments in the field covered in this volume include the latest observational results that show how various types of stellar ejecta differ in shape and a unified view of the physical processes involved as well as the latest results on the media around supernovae 1987A and 1993J This timely volume provides review articles that serve both as an excellent introduction for graduate students and a handy reference for researchers and up to date research papers for those who want to keep abreast of developments in the field   Dark Matter in Cosmology, Quantum Measurements, Experimental Gravitation R. Ansari,Yannick Giraud-Héraud,J. Thanh Van Tran,1996   *Massive Stars as Cosmic Engines (IAU S250)* International Astronomical Union. Symposium,2008-07-17 Reviews our current understanding of the life evolution and death of massive stars for researchers and graduate students   **New Views of the Moon** Bradley L. Jolliff,Mark A. Wieczorek,Charles K. Shearer,Clive R. Neal,2018-12-17 Volume 60 of Reviews in Mineralogy and Geochemistry assesses the current state of knowledge of lunar geoscience given the data sets provided by missions of the 1990 s and lists remaining key questions as well as new ones for future exploration to address It documents how a planet or moon other than the world on which we live can be studied and understood in light of integrated suites of specific kinds of information The Moon is the only body other than Earth for which we have material samples of known geologic context for study This volume seeks to show how the different kinds of information gained about the Moon relate to each other and also to learn from this experience thus allowing more efficient planning for the exploration of other worlds   **Computational Fluid Dynamics - Proceedings Of The Fourth Unam Supercomputing Conference** Gerardo Cisneros,Rafael Fernandez-flores,Eduardo Ramos,Alfredo

Santillan-gonzalez,2001-09-18 This volume presents recent advances in computational fluid dynamics The topics range from fundamentals and computational techniques to a wide variety of applications in astronomy applied mathematics meteorology etc They describe recent calculations in direct numerical simulation of turbulence applications of turbulence modeling of pollution problems in mesoscale meteorology industrial applications etc The emerging topic of parallelization of CFD codes is also presented This volume will appeal to graduate students researchers and anyone interested in using digital computation as a powerful tool for solving fluid dynamics problems in science and technology   Turbulence and Magnetic Fields in Astrophysics Edith Falgarone,Thierry Passot,2008-01-11 This book contains review articles of most of the topics addressed at the conf ence on Simulations of Magnetohydrodynamic turbulence in astrophysics recent achievements and perspectives which took place from July 2 to 6 2001 at the Institut Henri Poincar e in Paris We made the choice to publish these lectures in a tutorial form so that they can be read by a broad audience As a result this book does not give an exhaustive view of all the subjects addressed during the conference The main objective of this workshop which gathered about 90 scientists from di erent elds was to present and confront recent results on the topic of t bulence in magnetized astrophysical environments A second objective was to discuss the latest generation of numerical codes such as those using adaptive mesh re nement AMR techniques During a plenary discussion at the end of the workshop discussions were held on several topics often at the heart of vivid controversies Topics included the timescale for the dissipation of magneto hydrodynamical MHD turbulence the role of boundary conditions the characteristics of imbalanced turbulence the validity of the polytropic approach to Alfv en waves support within interst lar clouds the source of turbulence inside clouds devoid of stellar activity the timescale for star formation the Alfv en Mach number of interstellar gas motions the formation process for helical elds in the interstellar medium The impact of small upon large scales was also discussed   Cosmic Winds and the Heliosphere J. R. Jokipii,C. P. Sonett,Mark S. Giampapa,2018-01-30 Until the advent of space physics astrophysical plasmas could be studied only using ground based observations Although observational methods have advanced over recent decades the merging of heliospheric physics with astrophysics is far from complete due to the vastly different techniques employed by astronomers and space physicists That astrophysical plasmas can be studies directly is a major advance in astrophysical research The solar wind from the Sun is only one of many examples of solar winds but it provides scientists with a basis for understanding how these formerly disparate disciplines are related Cosmic Winds and the Heliosphere is a comprehensive sourcebook on conceptually correlated topics in astrophysical winds and heliospheric physics The contributors review the various kinds of winds such as solar wind winds of cataclysmic variables and winds from pulsating stars They then examine the physics of wind origin and physical phenomena in winds including heliospheric shocks magnetohydrodynamic turbulence and kinetic phenomena A final section considers interactions with surrounding media with contributions ranging from studies of the interstellar cloud surrounding the solar system to considerations of solar wind interaction with comets Prepared to the scrupulous standards of

the University of Arizona Space Science Series Cosmic Winds and the Heliosphere is an essential volume for astronomers and space physicists **Applying Fractals in Astronomy** Andre HECK,Jean M. Perdang,2008-09-11 Fractal geometry addressesitselfto questions that many people have been asking themselves It con cerns an aspect of Nature that almost everybody had been conscious of but could not address in a formal fashion Fractal geometry seems to be the proper language to describe the complezity of many very compli cated shapes around us Mandelbrot 1990a I believe that fractals respond to a profound un easiness in man Mandelbrot 1990b The catchword fractal ever since it was coined by Mandelbrot 1975 to refer to a class of abstract mathematical objects that were already known at the turn ofthe 19th century has found an unprecedented resonance both inside and outside the scientific community Fractal concepts far more than the concepts of catastrophe theory introduced a few years earlier are currently being applied not only in the physical sciences but also in biology and medicine Goldberger and West 1987 In the mid eighties Kadanoff 1986 asked the question Why all the fuss about ractals He offered a twofold answer in the first place it is because of the practical technological importance of fractal objects Indeed he emphasised the relevance of these structures for materials scientists and oil drilling engineers in search of structures with novel properties or models for the flow of oil through the soil His second answer was Because of the intellectual interest of fractals

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