Mark L. Wilkins

Computer Simulation of Dynamic Phenomena

Scientific Computation



<u>Computer Simulation Of Dynamic Phenomena Scientific</u> <u>Computation</u>

P. Sagaut

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Computer Simulation of Dynamic Phenomena Mark L. Wilkins, 2013-03-09 This text describes computer programs for simulating phenomena in hydro dynamics gas dynamics and elastic plastic flow in one two and three dimen sions Included in the two dimensional program are Maxwell's equations and thermal and radiation diffusion. The programs were developed by the author during the years 1952 1985 at the Lawrence Livermore National Laboratory The largest main frame computers available in the early 1950s were re guired to solve hydrodynamic problems in one space dimension by using forty mass points Subsequently numerical methods were developed for solving problems in two and three space dimensions but application of these methods had to wait until the main frame computers were large enough to tackle meaningful problems At the present time lap top computers can use these methods to solve problems in three space dimensions with the detail of 10 000 mass points The numerical procedures described in the text permit the exact con servation of physical properties in the solutions of the fundamental laws of mechanics 1 conservation of mass 2 conservation of momentum 3 con servation of energy The laws of mechanics are universal in their application Examples are given for the same computer simulation programs solving prob lems of penetration mechanics surface waves from earthquakes shock waves in solids and gases failure of materials Computational Aerodynamics and Fluid Dynamics Jean-Jacques Chattot, 2013-03-09 The field of computational fluid dynamics CFD has matured since the au thor was first introduced to electronic computation in the mid sixties The progress of numerical methods has paralleled that of computer technology and software Simulations are used routinely in all branches of engineering as a very powerful means for understanding complex systems and ultimately improve their design for better efficiency Today's engineers must be capable of using the large simulation codes available in industry and apply them to their specific problem by implementing new boundary conditions or modifying existing ones The objective of this book is to give the reader the basis for understanding the way numerical schemes achieve accurate and stable simulations of phy sical phenomena governed by equations that are related yet simpler than the equations they need to solve The model problems presented here are linear in most cases and represent the propagation of waves in a medium the diffusion of heat in a slab and the equilibrium of a membrane under distributed loads Yet regardless of the origin of the problem the partial differential equations PDE's reflect the physical phenomena to be modeled and can be classified as being of hyperbolic parabolic or elliptic type The numerical treatment depends on the equation type that can represent several physical situations as diverse as heat conduction and viscous fluid flow Non linear model problems are also presented and solved such as the transonic small disturbance equation and the equations of gas dynamics Computational Techniques for Fluid Dynamics Karkenahalli Srinivas, Clive A.J. Fletcher, 2012-12-06 This complementary text provides detailed solutions for the problems that appear in Chapters 2 to 18 of Computational Techniques for Fluid Dynamics CTFD Second Edition Consequently there is no Chapter 1 in this solutions manual The solutions are indicated in enough detail for the serious

reader to have little difficulty in completing any intermediate steps Many of the problems require the reader to write a computer program to obtain the solution Tabulated data from computer output are included where appropriate and coding enhancements to the programs provided in CTFD are indicated in the solutions In some instances completely new programs have been written and the listing forms part of the solution All of the program modifications new programs and input output files are available on an IBM compatible floppy direct from C A J Fletcher Many of the problems are substantial enough to be considered mini projects and the discussion is aimed as much at encouraging the reader to explore ex tensions and what if scenarios leading to further development as at providing neatly packaged solutions Indeed in order to give the reader a better intro duction to CFD reality not all the problems do have a happy ending Some suggested extensions fail but the reasons for the failure are illuminating Mathematics of Large Eddy Simulation of Turbulent Flows Luigi Carlo Berselli, Traian Iliescu, William J. Layton, 2006 The LES method is rapidly developing in many practical applications in engineering The mathematical background is presented here for the first time in book form by one of the leaders in the field

Lectures on Numerical Methods for Non-Linear Variational Problems R. Glowinski, 2008-01-22 When Herb Keller suggested more than two years ago that we update our lectures held at the Tata Institute of Fundamental Research in 1977 and then have it published in the collection Springer Series in Computational Physics we thought at first that it would be an easy task Actually we realized very quickly that it would be more complicated than what it seemed at first glance for several reasons 1 The first version of Numerical Methods for Nonlinear Variational Problems was in fact part of a set of monographs on numerical mat matics published in a short span of time by the Tata Institute of Fun mental Research in its well known series Lectures on Mathematics and Physics as might be expected the first version systematically used the material of the above monographs this being particularly true for Lectures on the Finite Element Method by P G Ciarlet and Lectures on Optimization Theory and Algorithms by I Cea This second version had to be more self contained This necessity led to some minor additions in Chapters I IV of the original version and to the introduction of a chapter namely Chapter Y of this book on relaxation methods since these methods play an important role in various parts of this book Radiation in Enclosures Aristide Mbiock, Roman Weber, 2012-12-06 During the last half century the development and testing of prediction models of combustion chamber performance have been an ongoing task at the International Flame Research Foundation IFRF in IJmuiden in the Netherlands and at many other research organizations This task has brought forth a hierarchy of more or less standard numerical models for heat transfer predictions in particular for the prediction of radiative heat transfer Unfortunately all the methods developed which certainly have a good physical foundation are based on a large number of extreme sim plifications or uncontrolled assumptions To date the ever more stringent requirements for efficient production and use of energy and heat from com bustion chambers call for prediction algorithms of higher accuracy and more detailed radiative heat transfer calculations. The driving forces behind this are advanced technology requirements the costs of large

scale experimen tal work and the limitation of physical modeling This interest is growing more acute and has increased the need for the publication of a textbook for more accurate treatment of radiative transfer in enclosures The writing of a textbook on radiative heat transfer however in ad dition to working regularly on other subjects is a rather difficult task for which some years of meditation are necessary The book must satisfy two requirements which are not easily reconciled From the mathematical point of view it must be written in accordance with standards of mathematical rigor and precision

Large Eddy Simulation for Incompressible Flows P. Sagaut, 2006 First concise textbook on Large Eddy Simulation a very important method in scientific computing and engineering From the foreword to the third edition written by Charles Meneveau this meticulously assembled and significantly enlarged description of the many aspects of LES will be a most welcome addition to the bookshelves of scientists and engineers in fluid mechanics LES practitioners and students of turbulence in general Asymptotic Analysis and Boundary Layers Jean Cousteix, Jacques Mauss, 2007-03-22 This book presents a new method of asymptotic analysis of boundary layer problems the Successive Complementary Expansion Method SCEM The first part is devoted to a general presentation of the tools of asymptotic analysis It gives the keys to understand a boundary layer problem and explains the methods to construct an approximation The second part is devoted to SCEM and its applications in fluid mechanics including external and internal flows Large Eddy Simulation for Incompressible Flows Pierre Sagaut, 2013-03-09 Still today turbulence in fluids is considered as one of the most difficult problems of modern physics Yet we are quite far from the complexity of microscopic molecular physics since we only deal with Newtonian mechanics laws applied to a continuum in which the effect of molecular fluctuations has been smoothed out and is represented by molecular viscosity coefficients Such a system has a dual behaviour of determinism in the Laplacian sense and extreme sensitivity to initial conditions because of its very strong non linear character One does not know for instance how to predict the critical Reynolds number of transition to turbulence in a pipe nor how to compute precisely the drag of a car or an aircraft even with today s largest computers 1 We know since the meteorologist Richardson numerical schemes allow ing us to solve in a deterministic manner the equations of motion starting with a given initial state and with prescribed boundary conditions They are based on moment um and energy balances However such are solution requires formidable computing power and is only possible for low Reynolds numbers These Direct Numerical Simulations may involve calculating the interaction of several million interacting sites Generally industrial natural or experimental configurations involve Reynolds numbers that are far too large to allow direct simulations 2 and the only possibility then is Large Eddy Simulation where the small scale turbulent fluctuations are themselves smoothed out and modelled via eddy viscosity and diffusivity assumptions Stochastic Numerics for Mathematical Physics Grigori Noah Milstein, Michael V. Tretyakov, 2013-03-09 Stochastic differential equations have many applications in the natural sciences Besides the employment of probabilistic representations together with the Monte Carlo technique allows us to reduce solution of multi dimensional problems for

partial differential equations to integration of stochastic equations. This approach leads to powerful computational mathematics that is presented in the treatise. The authors propose many new special schemes some published here for the first time. In the second part of the book they construct numerical methods for solving complicated problems for partial differential equations occurring in practical applications both linear and nonlinear All the methods are presented with proofs and hence founded on rigorous reasoning thus giving the book textbook potential. An overwhelming majority of the methods are accompanied by the corresponding numerical algorithms which are ready for implementation in practice. The book addresses researchers and graduate students in numerical analysis physics chemistry and engineering as well as mathematical biology and financial mathematics.

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