

NOTES ON NUMERICAL FLUID MECHANICS

Volume 6

Norbert Peters
Jürgen Warnatz

Numerical Methods
in
Laminar Flame Propagation

Springer Fachmedien Wiesbaden GmbH

Numerical Methods In Laminar Flame Propagation

Defense Documentation Center (U.S.)



Numerical Methods In Laminar Flame Propagation:

Numerical Methods in Laminar Flame Propagation Norbert Peters, Jürgen Warnatz, 2013-11-21 **Reacting Flows** G. S. S. Ludford, American Mathematical Society, 1986-12-31 These two volumes represent the culmination of the Special Year 84-85 in Reacting Flows held at Cornell University. As the proceedings of the 1985 AMS SIAM Summer Seminar in Applied Mathematics, the volumes focus on both mathematical and computational questions in combustion and chemical reactors. They are addressed to researchers and graduate students in the theory of reacting flows. Together they provide a sound basis and many incentives for future research, especially in computational aspects of reacting flows. Although the theory of reacting flows has developed rapidly, researchers in the two subareas of combustion and chemical reactors have not communicated. The main goal of this seminar was to synthesize the mathematical theory and bring it to the interface with large scale computing. All of the papers have high research value, but the first five introductory lectures should be especially noted.

Numerical Methods in Laminar Flame Propagation Norbert Peters, Jürgen Warnatz, 1982 This volume collects the results of a workshop held at Aachen, West Germany, Oct 12-14, 1981. The purpose in bringing together scientists actively working in the field of numerical methods in flame propagation was two fold: 1. To confront them with recent results obtained by large activation energy asymptotics and to check these numerically; 2. To compare different numerical codes and different transport models for flat flame calculations with complex chemistry. Two test problems were formulated by the editors to meet these objectives. Test problem A was an unsteady propagating flat flame with one step chemistry and Lewis number different from unity, while test problem B was the steady stoichiometric hydrogen-air flame with prescribed complex chemistry. The participants were asked to solve one or both test problems and to present recent work of their own choice at the meeting. The results of the numerical calculations of test problem A are challenging just as much for scientists employing numerical methods as for those devoted to large activation energy asymptotics. Satisfactory agreement between the five different groups was obtained only for two out of six cases: those with Lewis number Le equal to one. The very strong oscillations that occur at $Le = 2$ and a nondimensional activation energy of 20 were accurately resolved only by one group. This case is particularly interesting because the asymptotic theory so far predicts instability but not oscillations.

Mathematical Modeling in Combustion and Related Topics Claude-Michel Brauner, Claudine Schmidt-Lainé, 2012-12-06 This volume contains invited lectures and contributed papers presented at the NATO Advanced Research Workshop on Mathematical Modeling in Combustion and related topics held in Lyon, France, April 27-30, 1987. This conference was planned to fit in with the two month visit of Professor G. S. S. Ludford to the Ecole Centrale de Lyon. He kindly agreed to chair the Scientific and Organizing Committee and actively helped to initiate the meeting. His death in December 1986 is an enormous loss to the scientific community in general and in particular to the people involved in the present enterprise. The subject of mathematical modeling in combustion is too large for a single conference and the selection of topics

re flects both areas of recent research activity and areas of interest to Professor G S S Ludford to whose memory the Advanced Workshop and this present volume are dedicated The meeting was divided into seven specialized sessions detonation theory mathematical analysis numerical treatment of combustion problems flame theory experimental and industrial aspects complex chemistry and turbulent combustion It brought together researchers and engineers from University and Industry see below the closing remarks of the workshop by Prof N Peters The articles in this volume have been judged and accepted on their scientific quality and language corrections may have been sacrificed in order to allow quick dissemination of knowledge to prevail

Nonlinear Hyperbolic Equations — Theory, Computation Methods, and Applications Josef Ballmann, Rolf Jeltsch, 2013-03-08 On the occasion of the International Conference on Nonlinear Hyperbolic Problems held in St Etienne France 1986 it was decided to start a two years cycle of conferences on this very rapidly expanding branch of mathematics and its applications in Continuum Mechanics and Aerodynamics The second conference took place in Aachen FRG March 14-18 1988 The number of more than 200 participants from more than 20 countries all over the world and about 100 invited and contributed papers well balanced between theory numerical analysis and applications do not leave any doubt that it was the right decision to start this cycle of conferences of which the third will be organized in Sweden in 1990 This volume contains sixty eight original papers presented at the conference twenty two of them dealing with the mathematical theory e g existence uniqueness stability behaviour of solutions physical modelling by evolution equations Twenty two articles in numerical analysis are concerned with stability and convergence to the physically relevant solutions such as schemes especially devised for treating shocks contact discontinuities and artificial boundaries Twenty four papers contain multidimensional computational applications to nonlinear waves in solids flow through porous media and compressible fluid flow including shocks real gas effects multiphase phenomena chemical reactions etc The editors and organizers of the Second International Conference on Hyperbolic Problems would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the contributed papers of the conference

Recent Advances in Combustion Modelling Bernard Larrourou, 1991 This volume gathers the contributions of six world experts to a course on combustion modelling Therefore a pedagogical effort has been made in writing up these texts which cover state of the art advances in most aspects of combustion science The book is aimed at students researchers and engineers as was the course

Adaptive Multilevel Solution of Nonlinear Parabolic PDE Systems Jens Lang, 2013-06-29 Nowadays there is an increasing emphasis on all aspects of adaptively generating a grid that evolves with the solution of a PDE Another challenge is to develop efficient higher order one step integration methods which can handle very stiff equations and which allow us to accommodate a spatial grid in each time step without any specific difficulties In this monograph a combination of both error controlled grid refinement and one step methods of Rosenbrock type is presented It is my intention to impart the beauty and complexity found in the theoretical investigation of the adaptive algorithm proposed here in its realization and in

solving non trivial complex problems I hope that this method will find many more interesting applications Berlin Dahlem May 2000 Jens Lang Acknowledgements I have looked forward to writing this section since it is a pleasure for me to thank all friends who made this work possible and provided valuable input I would like to express my gratitude to Peter Deuflhard for giving me the opportunity to work in the field of Scientific Computing I have benefited immensely from his help to get the right perspectives and from his continuous encouragement and support over several years He certainly will forgive me the use of Rosenbrock methods rather than extrapolation methods to integrate in time **Advanced Combustion Science**

Tsuneo Someya, 2012-12-06 Non uniform combustion as encountered in diesel and gas turbine engines furnaces and boilers is responsible for the conversion of fossil fuel to energy and also for the corresponding formation of pollutants In spite of great research efforts in the past the mechanism of non uniform combustion has remained less explored than that of other combustion types since it consists of many mostly transient processes which influence each other In view of this background a group research project Exploration of Combustion Mechanism was established to explore the mechanism of combustion especially that of diffusive combustion and also to find efficient ways to control the combustion process for better utilization of fuel and the reduction of pollutant emission The group research was started after preparatory activity of 2 years in April 1988 for a period of 3 years as a project with a Grant in Aid for Scientific Research of Priority Area subsidized by the Ministry of Education Science and Culture of Japan The entire group of 43 members was set up as an organizing committee of 13 members and five research groups consisting of 36 members The research groups were 1 Steady combustion 2 Unsteady spray combustion 3 Control of combustion 4 Chemistry of combustion and 5 Effects of fuels At the beginning of the project it was agreed that we should pursue the mechanism of combustion from a scientific viewpoint namely the target of the project was to obtain the fundamentals or know why rather than know how of combustion **Combustion** J. Warnatz, Ulrich

Maas, Robert W. Dibble, 2013-04-17 Combustion is an old technology which at present provides about 90% of our worldwide energy support Combustion research in the past used fluid mechanics with global heat release by chemical reactions described with thermodynamics assuming infinitely fast reactions This approach was useful for stationary combustion processes but it is not sufficient for transient processes like ignition and quenching or for pollutant formation Yet pollutant formation during combustion of fossil fuels is a central topic and will continue to be so in the future This book provides a detailed and rigorous treatment of the coupling of chemical reactions and fluid flow Also combustion specific topics of chemistry and fluid mechanics are considered and tools described for the simulation of combustion processes For the 3rd edition the text has been thoroughly revised and updated Modern Developments in Energy, Combustion and Spectroscopy F.A. Williams, A.K. Oppenheim, D.B. Olfe, M. Lapp, 2013-10-22 This compendium of technical articles is dedicated to Professor Stanford Solomon Penner on the occasion of his 70th birthday As one of the most prominent scientists of our times he has been particularly instrumental in advancing the field of combustion science while simultaneously he has

developed quantitative spectroscopy into an important engineering discipline and is also a leading international expert on energy issues. Written primarily by researchers who were Professor Penner's doctorate students during the last four decades, the articles consist of original contributions as well as previously published papers that provide important insights into combustion spectroscopy and energy problems. Among the topics included are turbulent combustion, flame structure, detonations, spectroscopic diagnostics, spectroscopy of atmospheric gases, and physical problems associated with nuclear reactors as well as electric power distribution and energy conversion. The book includes a short biography of Professor Penner and a complete bibliography of his publications.

Hydrogen for Clean Energy Production: Combustion Fundamentals and Applications Medhat A. Nemitallah, Mohamed A. Habib, Ahmed Abdelhafez, 2024-09-28. The book fills the existing gap in the literature on clean and hydrogen combustion technologies for industrial applications. This gap is created due to the absence of a comprehensive textbook that covers such kinds of developments. This book can be used as a textbook for graduate level courses in the areas of clean and hydrogen combustion and as a reference book for short courses to be offered to mechanical and aerospace engineers and young researchers worldwide. The book chapters consider investigating clean and hydrogen combustion techniques for different applications based on experimental measurements along with detailed numerical simulations. Detailed descriptions of the different numerical models are presented for given applications to solve for the flow flame fields which are very important especially for beginners and undergraduate students in the fields of clean and hydrogen combustion.

Combustion Jürgen Warnatz, Ulrich Maas, Robert W. Dibble, 2012-12-06. Combustion is an old technology which at present provides about 90% of our worldwide energy support. Combustion research in the past used fluid mechanics with global heat release by chemical reactions described with thermodynamics assuming infinitely fast reactions. This approach was useful for stationary combustion processes but it is not sufficient for transient processes like ignition and quenching or for pollutant formation. Yet pollutant formation during combustion of fossil fuels is a central topic and will continue to be so in future. This book provides a detailed and rigorous treatment of the coupling of chemical reactions and fluid flow. Also combustion specific topics of chemistry and fluid mechanics are considered and tools described for the simulation of combustion processes. For the 2nd edition the parts dealing with experiments, spray combustion, and soot were thoroughly revised.

Technical Abstract Bulletin Defense Documentation Center (U.S.), 1961-04. **Multiple Time Scales** Jeremiah U. Brackbill, Bruce I. Cohen, 2014-05-10. Multiple Time Scales presents various numerical methods for solving multiple time scale problems. The selection first elaborates on considerations on solving problems with multiple scales, problems with different time scales, and nonlinear normal mode initialization of numerical weather prediction models. Discussions focus on analysis of observations, nonlinear analysis systems of ordinary differential equations, and numerical methods for problems with multiple scales. The text then examines the diffusion, synthetic acceleration of transport iterations with application to a radiation hydrodynamics problem, and implicit methods in

combustion and chemical kinetics modeling The publication ponders on molecular dynamics and Monte Carlo simulations of rare events direct implicit plasma simulation orbit averaging and subcycling in particle simulation of plasmas and hybrid and collisional implicit plasma simulation models Topics include basic moment method electron subcycling gyroaveraged particle simulation and the electromagnetic direct implicit method The selection is a valuable reference for researchers interested in pursuing further research on the use of numerical methods in solving multiple time scale problems **Variational**

Methods for Free Surface Interfaces Paul Concus, Robert Finn, 2012-12-06 Vallombrosa Center was host during the week September 7 12 1985 to about 40 mathematicians physical scientists and engineers who share a common interest in free surface phenomena This volume includes a selection of contributions by participants and also a few papers by interested scientists who were unable to attend in person Although a proceedings volume cannot recapture entirely the stimulus of personal interaction that ultimately is the best justification for such a gathering we do offer what we hope is a representative sampling of the contributions indicating something of the varied and interrelated ways with which these classical but largely unsettled questions are currently being attacked For the participants and also for other specialists the 23 papers that follow should help to establish and to maintain the new ideas and insights that were presented as active working tools Much of the material will certainly be of interest also for a broader audience as it impinges and overlaps with varying directions of scientific development On behalf of the organizing committee we thank the speakers for excellent well prepared lectures Additionally the many lively informal discussions did much to contribute to the success of the conference

Prandtl-Essentials of Fluid Mechanics Herbert Oertel, 2010-06-16 Ludwig Prandtl has been called the father of modern fluid mechanics and this updated and extended edition of his classic text on the field is based on the 12th German edition with additional material included **Adaptive Finite Element Solution Algorithm for the Euler Equations**

Richard A. Shapiro, 2013-03-08 This monograph is the result of my PhD thesis work in Computational Fluid Dynamics at the Massachusetts Institute of Technology under the supervision of Professor Earl L. Murman A new finite element algorithm is presented for solving the steady Euler equations describing the flow of an inviscid compressible ideal gas This algorithm uses a finite element spatial discretization coupled with a Runge Kutta time integration to relax to steady state It is shown that other algorithms such as finite difference and finite volume methods can be derived using finite element principles A higher order biquadratic approximation is introduced Several test problems are computed to verify the algorithms Adaptive gridding in two and three dimensions using quadrilateral and hexahedral elements is developed and verified Adaptation is shown to provide CPU savings of a factor of 2 to 16 and biquadratic elements are shown to provide potential savings of a factor of 2 to 6 An analysis of the dispersive properties of several discretization methods for the Euler equations is presented and results allowing the prediction of dispersive errors are obtained The adaptive algorithm is applied to the solution of several flows in scramjet inlets in two and three dimensions demonstrating some of the varied physics associated with these flows Some

issues in the design and implementation of adaptive finite element algorithms on vector and parallel computers are discussed

Scientific and Technical Aerospace Reports ,1994 Applied Mechanics Reviews ,1965 **Dynamics of Reactive Systems: Flames** A. L. Kuhl,1988

The Enigmatic Realm of **Numerical Methods In Laminar Flame Propagation**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Numerical Methods In Laminar Flame Propagation** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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