

**Vivette Girault
Pierre-Arnaud Raviart**

Finite Element Methods for Navier-Stokes Equations

Theory and Algorithms



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Finite Element Methods And Navierstrokes Equations

Vivette Girault, Pierre-Arnaud Raviart



Finite Element Methods And Navierstrokes Equations:

Finite Element Methods for Navier-Stokes Equations Vivette Girault, Pierre-Arnaud Raviart, 2012-12-06 The material covered by this book has been taught by one of the authors in a post graduate course on Numerical Analysis at the University Pierre et Marie Curie of Paris It is an extended version of a previous text of Girault Raviart 32J published in 1979 by Springer Verlag in its series Lecture Notes in Mathematics In the last decade many engineers and mathematicians have concentrated their efforts on the finite element solution of the Navier Stokes equations for incompressible flows The purpose of this book is to provide a fairly comprehensive treatment of the most recent developments in that field To stay within reasonable bounds we have restricted ourselves to the case of stationary problems although the time dependent problems are of fundamental importance This topic is currently evolving rapidly and we feel that it deserves to be covered by another specialized monograph We have tried to the best of our ability to present a fairly exhaustive treatment of the finite element methods for inner flows On the other hand however we have entirely left out the subject of exterior problems which involve radically different techniques both from a theoretical and from a practical point of view Also we have neither discussed the implementation of the finite element methods presented by this book nor given any explicit numerical result This field is extensively covered by Peyret Taylor 64J and Thomasset 82

Finite Element Methods and Navier-Stokes Equations C. Cuvelier, A. Segal, A.A. van Steenhoven, 2001-12-14 In present day technology the engineer is faced with complicated problems which can be solved only by advanced numerical methods using digital computers He should have mathematical models at his disposal in order to simulate the behavior of physical systems In many cases including problems in physics mechanics chemistry biology civil engineering electrodynamics solid mechanics space engineering petroleum engineering weather forecasting mass transport multiphase flow and last but not least hydrodynamics such a physical system can be described mathematically by one or more partial differential equations Some of these problems require extreme accuracy while for other problems only the qualitative behavior of the solution need to be studied The finite element method FEM is one of the most commonly used methods for solving partial differential equations PDEs It makes use of the computer and is very general in the sense that it can be applied to both steady state and transient linear and nonlinear problems in geometries of arbitrary space dimension The FEM is in fact a method which transforms a PDE into a system of linear algebraic equations The following aspects may be identified in the study of a physical phenomenon i engineering mathematical sciences to formulate the problem correctly in terms of PDEs ii numerical methods to construct and to solve the system of algebraic equations applied numerical functional analysis to give error estimates and convergence proofs iii informatics and programming to perform the calculations efficiently on the computer

Finite Element Methods and Navier-Stokes Equations Cornelis Cuvelier, August Segal, Anton A. Steenhoven, 1986

Implementation of Finite Element Methods for Navier-Stokes Equations F. Thomasset, 2012-12-06 In structure mechanics analysis finite element methods are now well established and

well documented techniques their advantage lies in a higher flexibility in particular for i The representation of arbitrary complicated boundaries ii Systematic rules for the developments of stable numerical schemes approximating mathematically wellposed problems with various types of boundary conditions On the other hand compared to finite difference methods this flexibility is paid by an increased programming complexity additional storage requirement The application of finite element methods to fluid mechanics has been lagging behind and is relatively recent for several types of reasons i Historical reasons the early methods were invented by engineers for the analysis of torsion flexion deformation of beams plates shells etc see the histories in Strang and Fix 1972 or Zienkiewicz 1977 ii Technical reasons fluid flow problems present specific difficulties strong gradients of the velocity or temperature for instance may occur which a finite mesh is unable to properly represent a remedy lies in the various upwind finite element schemes which recently turned up and which are reviewed in chapter 2 yet their effect is just as controversial as in finite differences Next waves can propagate e.g. in ocean dynamics with shallowwaters equations which will be falsely distorted by a finite non regular mesh as Kreiss 1979 pointed out We are concerned in this course with the approximation of incompressible viscous Newtonian fluids i.e. governed by Navier Stokes equations

Implementation of Finite Element Methods for Navier-Stokes Equations François Thomasset, 1981

Finite Element Methods for Navier-Stokes Equations Vivette Girault, Pierre-Arnaud Raviart, 1986-05-01

Finite Element Methods and Navier-Stokes Equations C. Cuvelier, A. Segal, A.A. van Steenhoven, 1986-03-31

Finite Element Methods for Incompressible Flow Problems Volker John, 2016-10-27 This book explores finite element methods for incompressible flow problems Stokes equations stationary Navier Stokes equations and time dependent Navier Stokes equations It focuses on numerical analysis but also discusses the practical use of these methods and includes numerical illustrations It also provides a comprehensive overview of analytical results for turbulence models The proofs are presented step by step allowing readers to more easily understand the analytical techniques

Finite Element Approximation of the Navier-Stokes Equations Vivette Girault, P. A. Raviart, 2014-09-01

Finite Volume Methods for the Incompressible Navier-Stokes Equations Jian Li, Xiaolin Lin, Zhangxing Chen, 2022-01-20 The book aims to provide a comprehensive understanding of the most recent developments in finite volume methods Its focus is on the development and analysis of these methods for the two and three dimensional Navier Stokes equations supported by extensive numerical results It covers the most used lower order finite element pairs with well posedness and optimal analysis for these finite volume methods The authors have attempted to make this book self contained by offering complete proofs and theoretical results While most of the material presented has been taught by the authors in a number of institutions over the past several years they also include several updated theoretical results for the finite volume methods for the incompressible Navier Stokes equations This book is primarily developed to address research needs for students and academic and industrial researchers It is particularly valuable as a research reference in the fields of engineering mathematics physics and computer sciences

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Control-volume Finite-element Method for Navier-Stokes Equations Hsiao-Wen Lin, 1989 **Mathematics and Finite Element Discretizations of Incompressible Navier-Stokes Flows** Christine Bernardi, Vivette Girault, Pierre-Arnaud Raviart, Beatrice Riviere, 2024-12-26 Navier Stokes equations are one of the most impactful techniques for modeling physical flow phenomena The coupling of velocity and pressure along with the nonlinearity is a challenge for the mathematical and numerical analysis of these equations This self contained book provides a thorough theoretical study of finite element methods for solving incompressible Navier Stokes equations which model ow of incompressible Newtonian uids and are used in many practical applications It focuses on efficient and widely used finite element methods that are well adapted to large scale simulations In this revised and expanded edition of Girault and Raviart s 1986 textbook *Finite Element Methods for Navier Stokes Equations* Springer Verlag readers will find rigorous proof of stability and convergence analysis of practical algorithms and a stand alone chapter on finite element methods that is applicable to a large range of PDEs In addition to the basic theoretical analysis this book covers up to date finite element discretizations of incompressible Navier Stokes equations a variety of numerical algorithms used in the computer implementation of Navier Stokes equations and numerical experiments standard and nonstandard boundary conditions and their numerical discretizations via the finite element methods and conforming and nonconforming finite elements as well as their stability and instability This book is intended for applied mathematicians and graduate students interested in learning about the theory of various finite element methods for solving the Navier Stokes equations Engineers seeking reliable algorithms for computational fluid dynamics will also find the book of interest *Advances In Numerical Heat Transfer* W. Minkowycz, 1996-11-01 This is the first volume in the series It analyzes several fundamental methodology issues in numerical heat transfer and fluid flow and identifies certain areas of active application The finite volume approach is presented with the finite element methods as well as with energy balance analysis Applications include the latest development in turbulence modeling and current approaches to inverse problems

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The Finite Element Method for Navier-Stokes Equations: a Least Squares Approach L. C. W. Dixon, Hatfield Polytechnic. Numerical Optimisation Centre, P. Singh, 1984

finite element methods Michel Krizek, Pekka Neittaanmaki, Rolf Stenberg, 2016-04-19 These proceedings originated from a conference commemorating the 50th anniversary of the publication of Richard Courant s seminal paper Variational Methods for Problems of Equilibrium and Vibration These papers address fundamental questions in numerical analysis and the special problems that occur in applying the finite element method to various

The Least-Squares Finite Element Method Bo-nan Jiang, 1998-06-22 This is the first monograph on the subject providing a comprehensive introduction to the LSFEM method for numerical solution of PDEs LSFEM is simple efficient and robust and can solve a wide range of problems in fluid dynamics and electromagnetics

An Application to the Navier Stokes Equations of the Finite Element Method Noel Alexander Frank Mack, 1977

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