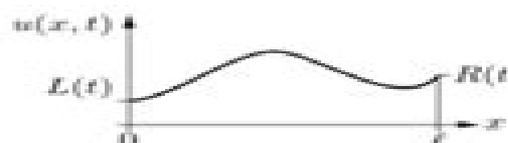


Numerical Solution of Partial Differential Equations

In these notes we develop a method for generating, numerically, approximate solutions to the vibrating string problem



$$u_{tt}(x, t) = c^2 u_{xx}(x, t) \quad 0 \leq x \leq \ell \quad t \geq 0 \quad (\text{wave equation}) \quad (1)$$

$$u(x, 0) = f(x) \quad 0 \leq x \leq \ell \quad (\text{initial position}) \quad (2a)$$

$$u_t(x, 0) = g(x) \quad 0 \leq x \leq \ell \quad (\text{initial speed}) \quad (2b)$$

$$u(0, t) = L(t) \quad t \geq 0 \quad (\text{left boundary}) \quad (3a)$$

$$u(\ell, t) = R(t) \quad t \geq 0 \quad (\text{right boundary}) \quad (3b)$$

The function $u(x, t)$ gives the amplitude of the string at position x and time t . Equation (1) is the wave equation. It is the equation of motion for the vibrating string and is a consequence of Newton's law, $F = ma$. Equations (2a,b) specify the initial position and speed of the string and equations (3a,b) specify the position of the two ends of the string for all time.

The method will be an extension of those (like Euler's method, for example) used for generating, numerically, approximate solutions to the initial value problem

$$y'(t) = f(t, y(t)) \quad t \geq 0 \quad (\text{ode}) \quad (4)$$

$$y(0) = y_0$$

Recall that under Euler's method, rather than generating approximate values for $y(t)$ for all values of $t \geq 0$, we pick a step size Δt and consider only $t = 0, \Delta t, 2\Delta t, \dots, t_n = n\Delta t, \dots$. We approximate the ordinary differential equation (4) by an equation, that does not contain any derivatives and that involves only the times t_n , by approximating

$$y'(t_n) = \lim_{h \rightarrow 0} \frac{y(t_n + h) - y(t_n)}{h} \approx \frac{y(t_n + \Delta t) - y(t_n)}{\Delta t} = \frac{y(t_{n+1}) - y(t_n)}{\Delta t}$$

Denoting $y(t_n) = y_n$, this gives

$$\frac{y_{n+1} - y_n}{\Delta t} \approx y'(t_n) = f(t_n, y(t_n)) = f(t_n, y_n)$$

Numerical Solution Partial Differential Equations

Jianjun Gao



Numerical Solution Partial Differential Equations:

Numerical Solution of Partial Differential Equations Gordon D. Smith, 1985 Substantially revised this authoritative study covers the standard finite difference methods of parabolic hyperbolic and elliptic equations and includes the concomitant theoretical work on consistency stability and convergence The new edition includes revised and greatly expanded sections on stability based on the Lax Richtmeyer definition the application of Pade approximants to systems of ordinary differential equations for parabolic and hyperbolic equations and a considerably improved presentation of iterative methods A fast paced introduction to numerical methods this will be a useful volume for students of mathematics and engineering and for postgraduates and professionals who need a clear concise grounding in this discipline

Numerical Solution of Partial Differential Equations K. W. Morton, D. F. Mayers, 2005-04-11 This is the 2005 second edition of a highly successful and well respected textbook on the numerical techniques used to solve partial differential equations arising from mathematical models in science engineering and other fields The authors maintain an emphasis on finite difference methods for simple but representative examples of parabolic hyperbolic and elliptic equations from the first edition However this is augmented by new sections on finite volume methods modified equation analysis symplectic integration schemes convection diffusion problems multigrid and conjugate gradient methods and several sections including that on the energy method of analysis have been extensively rewritten to reflect modern developments Already an excellent choice for students and teachers in mathematics engineering and computer science departments the revised text includes more latest theoretical and industrial developments

Solving Numerical PDEs: Problems, Applications, Exercises Luca Formaggia, Fausto Saleri, Alessandro Veneziani, 2012-04-05 This book stems from the long standing teaching experience of the authors in the courses on Numerical Methods in Engineering and Numerical Methods for Partial Differential Equations given to undergraduate and graduate students of Politecnico di Milano Italy EPFL Lausanne Switzerland University of Bergamo Italy and Emory University Atlanta USA It aims at introducing students to the numerical approximation of Partial Differential Equations PDEs One of the difficulties of this subject is to identify the right trade off between theoretical concepts and their actual use in practice With this collection of examples and exercises we try to address this issue by illustrating academic examples which focus on basic concepts of Numerical Analysis as well as problems derived from practical application which the student is encouraged to formalize in terms of PDEs analyze and solve The latter examples are derived from the experience of the authors in research project developed in collaboration with scientists of different fields biology medicine etc and industry We wanted this book to be useful both to readers more interested in the theoretical aspects and those more concerned with the numerical implementation

Numerical Solution of Partial Differential Equations in Science and Engineering Leon Lapidus, George F. Pinder, 1982 This book was written to provide a text for graduate and undergraduate students who took our courses in numerical methods It incorporates the essential elements of all the numerical methods

currently used extensively in the solution of partial differential equations encountered regularly in science and engineering. Because our courses were typically populated by students from varied backgrounds and with diverse interests we attempted to eliminate jargon or nomenclature that would render the work unintelligible to any student. Moreover, in response to student needs we incorporated not only classical and not so classical finite difference methods but also finite element collocation and boundary element procedures. After an introduction to the various numerical schemes, each equation type (parabolic, elliptic, and hyperbolic) is allocated a separate chapter. Within each of these chapters the material is presented by numerical method. Thus one can read the book either by equation type or numerical approach. Preface page v

Numerical Solution Of Ordinary And Partial Differential Equations, The (3rd Edition) Granville Sewell, 2014-12-16. This book presents methods for the computational solution of differential equations both ordinary and partial time dependent and steady state. Finite difference methods are introduced and analyzed in the first four chapters and finite element methods are studied in chapter five. A very general purpose and widely used finite element program PDE2D which implements many of the methods studied in the earlier chapters is presented and documented in Appendix A. The book contains the relevant theory and error analysis for most of the methods studied but also emphasizes the practical aspects involved in implementing the methods. Students using this book will actually see and write programs FORTRAN or MATLAB for solving ordinary and partial differential equations using both finite differences and finite elements. In addition they will be able to solve very difficult partial differential equations using the software PDE2D presented in Appendix A. PDE2D solves very general steady state time dependent and eigenvalue PDE systems in 1D intervals, general 2D regions, and a wide range of simple 3D regions. The Windows version of PDE2D comes free with every purchase of this book. More information at www.pde2d.com contact

Numerical Solution of Partial Differential Equations by the Finite Element Method Claes Johnson, 2009-01-15. This accessible introduction offers the keys to an important technique in computational mathematics. It outlines clear connections with applications and considers numerous examples from a variety of specialties. 1987 edition. *Numerical Solution of Elliptic and Parabolic Partial Differential Equations with CD-ROM* John Arthur Trangenstein, 2013-04-18. For mathematicians and engineers interested in applying numerical methods to physical problems, this book is ideal. Numerical ideas are connected to accompanying software which is also available online. By seeing the complete description of the methods in both theory and implementation, students will more easily gain the knowledge needed to write their own application programs or develop new theory. The book contains careful development of the mathematical tools needed for analysis of the numerical methods, including elliptic regularity theory and approximation theory. Variational crimes due to quadrature, coordinate mappings, domain approximation, and boundary conditions are analyzed. The claims are stated with full statement of the assumptions and conclusions, and use subscripted constants which can be traced back to the origination, particularly in the electronic version which can be found on the accompanying CD ROM. [Numerical Methods for Partial](#)

Differential Equations Sandip Mazumder,2015-12-01 Numerical Methods for Partial Differential Equations Finite Difference and Finite Volume Methods focuses on two popular deterministic methods for solving partial differential equations PDEs namely finite difference and finite volume methods The solution of PDEs can be very challenging depending on the type of equation the number of independent variables the boundary and initial conditions and other factors These two methods have been traditionally used to solve problems involving fluid flow For practical reasons the finite element method used more often for solving problems in solid mechanics and covered extensively in various other texts has been excluded The book is intended for beginning graduate students and early career professionals although advanced undergraduate students may find it equally useful The material is meant to serve as a prerequisite for students who might go on to take additional courses in computational mechanics computational fluid dynamics or computational electromagnetics The notations language and technical jargon used in the book can be easily understood by scientists and engineers who may not have had graduate level applied mathematics or computer science courses Presents one of the few available resources that comprehensively describes and demonstrates the finite volume method for unstructured mesh used frequently by practicing code developers in industry Includes step by step algorithms and code snippets in each chapter that enables the reader to make the transition from equations on the page to working codes Includes 51 worked out examples that comprehensively demonstrate important mathematical steps algorithms and coding practices required to numerically solve PDEs as well as how to interpret the results from both physical and mathematic perspectives *Numerical Methods for Partial Differential Equations* Vitoriano Ruas,2016-08-22 Numerical Methods for Partial Differential Equations An Introduction Vitoriano Ruas Sorbonne Universit s UPMC Universit Paris 6 France A comprehensive overview of techniques for the computational solution of PDE s Numerical Methods for Partial Differential Equations An Introduction covers the three most popular methods for solving partial differential equations the finite difference method the finite element method and the finite volume method The book combines clear descriptions of the three methods their reliability and practical implementation aspects Justifications for why numerical methods for the main classes of PDE s work or not or how well they work are supplied and exemplified Aimed primarily at students of Engineering Mathematics Computer Science Physics and Chemistry among others this book offers a substantial insight into the principles numerical methods in this class of problems are based upon The book can also be used as a reference for research work on numerical methods for PDE s Key features A balanced emphasis is given to both practical considerations and a rigorous mathematical treatment The reliability analyses for the three methods are carried out in a unified framework and in a structured and visible manner for the basic types of PDE s Special attention is given to low order methods as practitioner s overwhelming default options for everyday use New techniques are employed to derive known results thereby simplifying their proof Supplementary material is available from a companion website Partial Differential Equations J. Necas,Willi Jager,Jana Stara,Oldrich John,Karel Najzar,1999-07-23 As a satellite conference of the 1998

International Mathematical Congress and part of the celebration of the 650th anniversary of Charles University the Partial Differential Equations Theory and Numerical Solution conference was held in Prague in August 1998 With its rich scientific program the conference provided an opportunity for almost 200 participants to gather and discuss emerging directions and recent developments in partial differential equations PDEs This volume comprises the Proceedings of that conference In it leading specialists in partial differential equations calculus of variations and numerical analysis present up to date results applications and advances in numerical methods in their fields Conference organizers chose the contributors to bring together the scientists best able to present a complex view of problems starting from the modeling passing through the mathematical treatment and ending with numerical realization The applications discussed include fluid dynamics semiconductor technology image analysis motion analysis and optimal control The importance and quantity of research carried out around the world in this field makes it imperative for researchers applied mathematicians physicists and engineers to keep up with the latest developments With its panel of international contributors and survey of the recent ramifications of theory applications and numerical methods Partial Differential Equations Theory and Numerical Solution provides a convenient means to that end

Methods for the Numerical Solution of Partial Differential Equations Dale U. Von Rosenberg, 1969 This postgraduate text describes methods which can be used to solve physical and chemical problems on a digital computer The methods are described on simple physical problems with which the student is familiar and then extended to more complex ones Emphasis is placed on the use of discrete grid points the representation of derivatives by finite difference ratios and the consequent replacement of the differential equations by a set of finite difference equations Efficient methods for the solution of the resulting set of equations are given and five solution algorithms are presented in the book

Partial Differential Equations with Numerical Methods Stig Larsson, Vidar Thomee, 2008-11-19 The main theme is the integration of the theory of linear PDE and the theory of finite difference and finite element methods For each type of PDE elliptic parabolic and hyperbolic the text contains one chapter on the mathematical theory of the differential equation followed by one chapter on finite difference methods and one on finite element methods The chapters on elliptic equations are preceded by a chapter on the two point boundary value problem for ordinary differential equations Similarly the chapters on time dependent problems are preceded by a chapter on the initial value problem for ordinary differential equations There is also one chapter on the elliptic eigenvalue problem and eigenfunction expansion The presentation does not presume a deep knowledge of mathematical and functional analysis The required background on linear functional analysis and Sobolev spaces is reviewed in an appendix The book is suitable for advanced undergraduate and beginning graduate students of applied mathematics and engineering

The Numerical Solution of Ordinary and Partial Differential Equations Granville Sewell, 2005-07-25 Learn to write programs to solve ordinary and partial differential equations The Second Edition of this popular text provides an insightful introduction to the use of finite difference and finite element methods for the

computational solution of ordinary and partial differential equations Readers gain a thorough understanding of the theory underlying the methods presented in the text The author emphasizes the practical steps involved in implementing the methods culminating in readers learning how to write programs using FORTRAN90 and MATLAB r to solve ordinary and partial differential equations The book begins with a review of direct methods for the solution of linear systems with an emphasis on the special features of the linear systems that arise when differential equations are solved The following four chapters introduce and analyze the more commonly used finite difference methods for solving a variety of problems including ordinary and partial differential equations and initial value and boundary value problems The techniques presented in these chapters with the aid of carefully developed exercises and numerical examples can be easily mastered by readers The final chapter of the text presents the basic theory underlying the finite element method Following the guidance offered in this chapter readers gain a solid understanding of the method and discover how to use it to solve many problems A special feature of the Second Edition is Appendix A which describes a finite element program PDE2D developed by the author Readers discover how PDE2D can be used to solve difficult partial differential equation problems including nonlinear time dependent and steady state systems and linear eigenvalue systems in 1D intervals general 2D regions and a wide range of simple 3D regions The software itself is available to instructors who adopt the text to share with their students

Essential Partial Differential Equations David F. Griffiths, John W. Dold, David J. Silvester, 2015-09-24 This volume provides an introduction to the analytical and numerical aspects of partial differential equations PDEs It unifies an analytical and computational approach for these the qualitative behaviour of solutions being established using classical concepts maximum principles and energy methods Notable inclusions are the treatment of irregularly shaped boundaries polar coordinates and the use of flux limiters when approximating hyperbolic conservation laws The numerical analysis of difference schemes is rigorously developed using discrete maximum principles and discrete Fourier analysis A novel feature is the inclusion of a chapter containing projects intended for either individual or group study that cover a range of topics such as parabolic smoothing travelling waves isospectral matrices and the approximation of multidimensional advection diffusion problems The underlying theory is illustrated by numerous examples and there are around 300 exercises designed to promote and test understanding They are starred according to level of difficulty Solutions to odd numbered exercises are available to all readers while even numbered solutions are available to authorised instructors Written in an informal yet rigorous style *Essential Partial Differential Equations* is designed for mathematics undergraduates in their final or penultimate year of university study but will be equally useful for students following other scientific and engineering disciplines in which PDEs are of practical importance The only prerequisite is a familiarity with the basic concepts of calculus and linear algebra

Domain Decomposition Methods for the Numerical Solution of Partial Differential Equations Tarek Mathew, 2008-06-25 Domain decomposition methods are divide and conquer computational methods for the parallel solution

of partial differential equations of elliptic or parabolic type The methodology includes iterative algorithms and techniques for non matching grid discretizations and heterogeneous approximations This book serves as a matrix oriented introduction to domain decomposition methodology A wide range of topics are discussed include hybrid formulations Schwarz and many more

[A Bibliography for the Numerical Solution of Partial Differential Equations](#) John H. Giese, 1969 A list of 2561 references to the numerical solution of partial differential equations has been compiled References to reviews in several abstracting journals have been given and a crude index has been prepared Author

Partial Differential Equations J. Necas, 2017 As a satellite conference of the 1998 International Mathematical Congress and part of the celebration of the 650th anniversary of Charles University the Partial Differential Equations Theory and Numerical Solution conference was held in Prague in August 1998 With its rich scientific program the conference provided an opportunity for almost 200 participants to gather and discuss emerging directions and recent developments in partial differential equations PDEs This volume comprises the Proceedings of that conference In it leading specialists in partial differential equations calculus of variations and numerical analysis present up to date results applications and advances in numerical methods in their fields Conference organizers chose the contributors to bring together the scientists best able to present a complex view of problems starting from the modeling passing through the mathematical treatment and ending with numerical realization The applications discussed include fluid dynamics semiconductor technology image analysis motion analysis and optimal control The importance and quantity of research carried out around the world in this field makes it imperative for researchers applied mathematicians physicists and engineers to keep up with the latest developments With its panel of international contributors and survey of the recent ramifications of theory applications and numerical methods Partial Differential Equations Theory and Numerical Solution provides a convenient means to that end Provided by publisher

Asymptotic Analysis and the Numerical Solution of Partial Differential Equations Hans G. Kaper, Marc Garbey, 1991-02-25 Integrates two fields generally held to be incompatible if not downright antithetical in 16 lectures from a February 1990 workshop at the Argonne National Laboratory Illinois The topics of interest to industrial and applied mathematicians analysts and computer scientists include singular per

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