



Overview of advanced numerical methods classified by operation dimensions

Xiao-Wei Gao^{*}, Wei-Wu Jiang, Xiang-Bo Xu, Hua-Yu Liu, Kai Yang, Jun Lv and Miao Cui

School of Aeronautics and Astronautics, Dalian University of Technology, Dalian, China

In this article, the progress of frequently used advanced numerical methods is presented. According to the discretisation manner and manipulation dimensionality, these methods can be classified into four categories: volume-, surface-, line-, and point-operations-based methods. The volume-operation-based methods described in this article include the finite element method and element differential method; the surface-operation-based methods consist of the boundary element method and finite volume method; the line-operation-based methods cover the finite difference method and finite line method; and the point-operation-based methods mainly include the mesh free method and free element method. These methods have their own distinctive advantages in some specific disciplines. For example, the finite element method is the dominant method in solid mechanics, the finite volume method is extensively used in fluid mechanics, the boundary element method is more accurate and easier to use than other methods in fracture mechanics and infinite media, the mesh free method is more flexible for simulating varying and distorted geometries, and the newly developed free element and finite line methods are suitable for solving multi-physics coupling problems. This article provides a detailed conceptual description and typical applications of these promising methods, focusing on developments in recent years.

Keywords: finite element method, finite volume method, boundary element method, mesh free method, free element method, finite line method

INTRODUCTION

Most engineering problems can be represented by a set of second-order partial differential equations (PDEs) with relevant boundary conditions (B.C.), named the boundary value problems (BVP) of PDEs [1, 2]. For example, in thermal engineering, the diffusion-convection problem usually has the following BVP [3]:

$$\text{PDE: } \frac{\partial}{\partial x_i} \left(\lambda_{ij}(x) \frac{\partial T(x)}{\partial x_j} \right) + \frac{\partial \rho c v_i(x) T(x)}{\partial x_i} + Q(x) = 0, \quad x \in \Omega \quad (1)$$

$$\text{B.C.: } \begin{cases} T(x) = \bar{T}(x), & x \in \Gamma_1 \\ -\lambda_{ij}(T, x) \frac{\partial T(x)}{\partial x_j} n_j(x) = q(x), & x \in \Gamma_2 \\ -\lambda_{ij}(T, x) \frac{\partial T(x)}{\partial x_j} n_j(x) = h(x)(T(x) - T_\infty), & x \in \Gamma_3 \end{cases} \quad (2)$$

where T is the temperature, λ_{ij} the conductivity tensor, Q the heat source, v_i the velocity, q the specified heat flux, and h the heat transfer coefficient.

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*Correspondence:

Xiao-Wei Gao
 xwgao@dlut.edu.cn

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Advanced Numerical Methods with Matlab Bouchaib Radi, Abdelkhalak El Hami, 2018 **Advanced Numerical Methods with Matlab1** Bouchaïb Radi, Abdelkhalak El Hami, 2018 *Special Issue: Advanced Numerical Methods in Engineering Applications* Michel Deville, 2010 Advanced Numerical Methods with Matlab 2 Bouchaib Radi, Abdelkhalak El Hami, 2018-05-24 The purpose of this book is to introduce and study numerical methods basic and advanced ones for scientific computing This last refers to the implementation of appropriate approaches to the treatment of a scientific problem arising from physics meteorology pollution etc or of engineering mechanics of structures mechanics of fluids treatment signal etc Each chapter of this book recalls the essence of the different methods resolution and presents several applications in the field of engineering as well as programs developed under Matlab software *Advanced Numerical Methods for Mathematical Modelling* Adhemar Bultheel, Dirk Roose, 2001 *Analysis of Numerical Methods* Eugene Isaacson, Herbert Bishop Keller, 1994-06-07 This excellent text for advanced undergraduate and graduate students covers norms numerical solutions of linear systems and matrix factoring eigenvalues and eigenvectors polynomial approximation and more Many examples and problems 1966 edition Special Issue: Advanced Numerical Methods for Mathematical Modelling Adhemar Bultheel, 2001 Numerical Methods In Engineering & Science Carl .E. Pearson, 1986-05-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education Advanced Numerical Methods in Engineering Applications Brussels, Belgium, July 3 - 4, 2006 ,2010

Numerical Methods for Equations and its Applications Ioannis K. Argyros, Yeol J. Cho, Saïd Hilout, 2012-06-05 This book introduces advanced numerical functional analysis to beginning computer science researchers The reader is assumed to have had basic courses in numerical analysis computer programming computational linear algebra and an introduction to real complex and functional analysis Although the book is of a theoretical nature each chapter co *Advanced Numerical Methods in Applied Sciences* Felice Lavernaro, Luigi Brugnano, 2019 The use of scientific computing tools is currently customary for solving problems at several complexity levels in Applied Sciences The great need for reliable software in the scientific community conveys a continuous stimulus to develop new and better performing numerical methods that are able to grasp the particular features of the problem at hand This has been the case for many different settings of numerical analysis and this Special Issue aims at covering some important developments in various areas of application Numerical Methods in Computational Mechanics Jamshid Ghaboussi, Xiping Steven Wu, 2016-11-25 This book explores the numerical algorithms underpinning modern finite element based computational mechanics software It covers all the major numerical methods that are used in computational mechanics It reviews the basic concepts in linear algebra and advanced matrix theory before covering solution of systems of equations symmetric eigenvalue solution methods and direct integration of discrete dynamic equations of motion illustrated with numerical examples This book suits a graduate course in mechanics

based disciplines and will help software developers in computational mechanics Increased understanding of the underlying numerical methods will also help practicing engineers to use the computational mechanics software more effectively

An Introduction to Numerical Methods and Analysis James F. Epperson, 2013-06-06 Praise for the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises

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Numerical Methods and Methods of Approximation in Science and Engineering Karan S. Surana, 2018-10-31 Numerical Methods and Methods of Approximation in Science and Engineering prepares students and other readers for advanced studies involving applied numerical and computational analysis Focused on building a sound theoretical foundation it uses a clear and simple approach backed by numerous worked examples to facilitate understanding of numerical methods and their application Readers will learn to structure a sequence of operations into a program using the programming language of their choice this approach leads to a deeper understanding of the methods and their limitations

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Numerical Methods for Scientific Computations and Advanced Applications Krassimir Georgiev, Oleg Iliev, Peter Minev, 2015

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Advanced Level Numerical Methods Y. K. Kwok,1987

Numerical Methods for Scientific Computing Kyle Novak,2022-03-13 A comprehensive guide to the theory intuition and application of numerical methods in linear algebra analysis and differential equations With extensive commentary and code for three essential scientific computing languages Julia Python and Matlab

Numerical Methods in Engineering & Science Graham de Vahl Davis,2012-12-06 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 1i hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered Engineers and applied scientists but not of course mathematicians are more con cerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to con vince themselves of this without the need for more than the minimum of theory which is presented here

Advanced Numerical Methods and Mathematical Modeling ALEC. STOVARI,Nora Bennett,2025-01-25

Unlock the full potential of computational mathematics with *Advanced Numerical Methods and Mathematical Modeling* an indispensable reference for students researchers and professionals alike This book meticulously covers a vast array of critical topics in numerical analysis offering profound insights and expert level techniques From foundational concepts in Matrix Algebra and Numerical Methods to cutting edge approaches in Optimization and Numerical Integration this comprehensive volume is designed to equip readers with a solid understanding of both theory and practical applications It delves into topics such as Gaussian Elimination Matrix Decompositions Least Squares Methods and Iterative Solving of Linear Systems while also offering a detailed examination of interpolation techniques from polynomial to spline methods Incorporating an in depth exploration of iterative methods for solving nonlinear equations the book also provides valuable guidance on methods such as Newton's Method Secant Method and Quasi Newton Methods ensuring a complete toolkit for tackling complex mathematical challenges The book extends into the realm of optimization covering algorithms like Nelder Mead Gradient Descent and Conjugate Gradient essential for solving real world optimization problems Moreover the text addresses the numerical solution of differential equations presenting both basic and advanced techniques for solving ordinary and partial differential equations making it a crucial guide for those working in engineering physics finance and applied sciences

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