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numerical methods with this topic, and note that this is somewhat nonstandard. In this chapter we begin with discussion of some basic notations and definitions which will be of importance throughout these lectures, but especially so in the present chapter.

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Information technologies have changed people's lives to a great extent, and now it is almost impossible to imagine any activity that does not depend on computers in some way. Since the invention of first computer systems, people have been trying to avail computers in order to solve complex problems in various areas. Traditional methods of calculation have been replaced by computer

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programs that have the ability to predict the behavior of structures under different loading conditions. There are eight chapters in this book that deal with: optimal control of thermal pollution emitted by power plants, finite difference solution of conjugate heat transfer in double pipe with trapezoidal fins, photovoltaic system integrated into the buildings, possibilities of modeling Petri nets and their extensions, etc.

This book gathers outstanding papers on numerical modeling in Mechanical Engineering (Volume 2) as part of the proceedings of the

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1st International Conference on Numerical Modeling in Engineering (NME 2018), which was held in Ghent, Belgium. The overall objective of the conference was to bring together international scientists and engineers in academia and industry from fields related to advanced numerical techniques, such as the finite element method (FEM), boundary element method (BEM), isogeometric analysis (IGA), etc., and their applications to a wide range of engineering disciplines. This book addresses various industrial engineering applications of numerical simulations to Mechanical and Materials Engineering,

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including: Aerospace applications, Acoustic analysis, Biomechanical applications, Contact problems and wear, Heat transfer analysis, Vibration and dynamics, Transient analysis, Nonlinear analysis, Composite materials, Polymers, Metal alloys, Fracture mechanics, Fatigue of materials, Creep behavior, Phase transformation, and Crystal plasticity.

The fourth edition of Numerical Methods Using MATLAB® provides a clear and rigorous introduction to a wide range of numerical methods that have practical applications. The authors' approach is to integrate MATLAB®

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with numerical analysis in a way which adds clarity to the numerical analysis and develops familiarity with MATLAB®. MATLAB® graphics and numerical output are used extensively to clarify complex problems and give a deeper understanding of their nature. The text provides an extensive reference providing numerous useful and important numerical algorithms that are implemented in MATLAB® to help researchers analyze a particular outcome. By using MATLAB® it is possible for the readers to tackle some large and difficult problems and deepen and consolidate their understanding of problem

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solving using numerical methods. Many worked examples are given together with exercises and solutions to illustrate how numerical methods can be used to study problems that have applications in the biosciences, chaos, optimization and many other fields. The text will be a valuable aid to people working in a wide range of fields, such as engineering, science and economics. Features many numerical algorithms, their fundamental principles, and applications Includes new sections introducing Simulink, Kalman Filter, Discrete Transforms and Wavelet Analysis Contains some new problems and examples Is

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user-friendly and is written in a conversational and approachable style
Contains over 60 algorithms implemented as MATLAB® functions, and over 100 MATLAB® scripts applying numerical algorithms to specific examples

This book combines essential finite element (FE) theory with a set of twelve tutorials using relatively easy-to-use open source CAD, FE and numerical analysis codes so a student can undertake practical analysis and self-study. The theory covers fundamentals of the finite element method. Formulation of element

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stiffness for one dimensional bar and beam, two dimensional and three dimensional continuum elements, plate and shell elements are derived based on direct, energy and variational methods. Linear, nonlinear and transient dynamic solution methods are covered for both mechanical and field analysis problems with a focus on heat transfer. Other important theoretical topics covered include element integration, element assembly, loads, boundary conditions, contact and a chapter devoted to material laws on elasticity, hyperelasticity and plasticity. The second half of this book

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presents one chapter on using the tutorials containing information on installing the codes (on Windows) and getting started, and general hints on meshing, modelling and analysis. This is then followed by the tutorials and exercises which cover linear, nonlinear and dynamic mechanical analysis, steady state and transient heat analysis, field analysis, fatigue, buckling and frequency analysis, and lastly a hydraulic pipe network analysis. In each tutorial I have linked theory with application and included exercises for further self-study. For these tutorials open source codes

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FreeCAD, CalculiX and FreeMAT are used.

CalculiX is a comprehensive FE package covering linear, nonlinear, mechanical, fluid and thermal analysis. One particular benefit is its format and structure, which is based on Abaqus and therefore knowledge gained is relevant to a leading commercial code.

FreeCAD is primarily a powerful CAD modelling code, that includes good finite element meshing and modelling capabilities and is fully integrated with CalculiX. FreeMAT is used in two tutorials for numerical analysis demonstrating algorithms for explicit finite element analysis. The primary aim of this book

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is to provide a unified text covering theory and practice, so a student can learn and experiment with this versatile and powerful analysis method. It should be of interest to both finite element courses and for student self-study. Anthony Pickett undertook postgraduate research in composites analysis at the University of Surrey and RAE Farnborough, followed by nearly twenty-five years industrial work as scientific director with ESI GmbH developing and applying FE codes for crash, impact, process and mechanical simulation of metal and composite structures. From 2002 he was a professor at

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Cranfield University and since 2007 has continued research and teaching of advanced composites and analysis at IFB (Institute of Aircraft Design) at the University of Stuttgart, Germany.

Based on the author's junior-level undergraduate course, this introductory textbook is designed for a course in mathematical physics. Focusing on the physics of oscillations and waves, *A Course in Mathematical Methods for Physicists* helps students understand the mathematical techniques needed for their future studies in

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physics. It takes a bottom-up approach that emphasizes physical applications of the mathematics. The book offers: A quick review of mathematical prerequisites, proceeding to applications of differential equations and linear algebra Classroom-tested explanations of complex and Fourier analysis for trigonometric and special functions Coverage of vector analysis and curvilinear coordinates for solving higher dimensional problems Sections on nonlinear dynamics, variational calculus, numerical solutions of differential equations, and Green's functions

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An introductory textbook for people who have not programmed before. Covers basic MATLAB programming with emphasis on modeling and simulation of physical systems.

Electromagnetics for Electrical Machines offers a comprehensive yet accessible treatment of the linear theory of electromagnetics and its application to the design of electrical machines. Leveraging valuable classroom insight gained by the authors during their impressive and ongoing teaching careers, this text emphasizes concepts rather than numerical methods,

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providing presentation/project problems at the end of each chapter to enhance subject knowledge. Highlighting the essence of electromagnetic field (EMF) theory and its correlation with electrical machines, this book: Reviews Maxwell's equations and scalar and vector potentials Describes the special cases leading to the Laplace, Poisson's, eddy current, and wave equations Explores the utility of the uniqueness, generalized Poynting, Helmholtz, and approximation theorems Discusses the Schwarz-Christoffel transformation, as well as the determination of airgap permeance Addresses the skin

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effects in circular conductors and eddy currents in solid and laminated iron cores Contains examples relating to the slot leakage inductance of rotating electrical machines, transformer leakage inductance, and theory of hysteresis machines Presents analyses of EMFs in laminated-rotor induction machines, three-dimensional field analyses for three-phase solid rotor induction machines, and more Electromagnetics for Electrical Machines makes an ideal text for postgraduate-level students of electrical engineering, as well as of physics and electronics and communication engineering. It

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is also a useful reference for research scholars concerned with problems involving electromagnetics.

This textbook presents a variety of applied mathematics topics in science and engineering with an emphasis on problem solving techniques using MATLAB®. The authors provide a general overview of the MATLAB language and its graphics abilities before delving into problem solving, making the book useful for readers without prior MATLAB experience. They explain how to generate code suitable for various applications so that readers can

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apply the techniques to problems not covered in the book. Examples, figures, and MATLAB scripts enable readers with basic mathematics knowledge to solve various applied math problems in their fields while avoiding unnecessary technical details.

Modelling and simulation in acoustics is currently gaining importance. In fact, with the development and improvement of innovative computational techniques and with the growing need for predictive models, an impressive boost has been observed in several research and application areas, such as noise control,

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indoor acoustics, and industrial applications. This led us to the proposal of a special issue about “Modelling, Simulation and Data Analysis in Acoustical Problems”, as we believe in the importance of these topics in modern acoustics’ studies. In total, 81 papers were submitted and 33 of them were published, with an acceptance rate of 37.5%. According to the number of papers submitted, it can be affirmed that this is a trending topic in the scientific and academic community and this special issue will try to provide a future reference for the research that will be developed in coming years.

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