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This textbook offers theoretical and practical knowledge of the finite element method. The book equips readers with the skills required to analyze engineering problems using ANSYS®, a commercially available

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FEA program. Revised and updated, this new edition presents the most current ANSYS® commands and ANSYS® screen shots, as well as modeling steps for each example problem. This self-contained, introductory text minimizes the need for additional reference material by

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covering both the fundamental topics in finite element methods and advanced topics concerning modeling and analysis. It focuses on the use of ANSYS® through both the Graphics User Interface (GUI) and the ANSYS® Parametric Design Language (APDL). Extensive examples from a range of

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engineering disciplines are presented in a straightforward, step-by-step fashion. Key topics include: □ An introduction to FEM □ Fundamentals and analysis capabilities of ANSYS® □ Fundamentals of discretization and approximation functions □ Modeling techniques and mesh generation in

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subjects such as submodeling,
substructuring, interaction with

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external files, and modification of ANSYS®-GUI Electronic supplementary material for using ANSYS® can be found at <http://link.springer.com/book/10.1007/978-1-4899-7550-8>. This convenient online feature, which includes color figures, screen shots and input files for sample

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problems, allows for regeneration on the reader's own computer. Students, researchers, and practitioners alike will find this an essential guide to predicting and simulating the physical behavior of complex engineering systems."

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ANSYS Mechanical APDL for Finite Element Analysis provides a hands-on introduction to engineering analysis using one of the most powerful commercial general purposes finite element programs on the market. Students will find a practical and integrated approach that combines

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finite element theory with best practices for developing, verifying, validating and interpreting the results of finite element models, while engineering professionals will appreciate the deep insight presented on the program's structure and behavior. Additional topics covered

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include an introduction to commands, input files, batch processing, and other advanced features in ANSYS. The book is written in a lecture/lab style, and each topic is supported by examples, exercises and suggestions for additional readings in the program documentation. Exercises gradually

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increase in difficulty and complexity, helping readers quickly gain confidence to independently use the program. This provides a solid foundation on which to build, preparing readers to become power users who can take advantage of everything the program has to offer. Includes the

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latest information on ANSYS
Mechanical APDL for Finite Element
Analysis Aims to prepare readers to
create industry standard models with
ANSYS in five days or less Provides
self-study exercises that gradually
build in complexity, helping the reader
transition from novice to mastery of

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ANSYS References the ANSYS documentation throughout, focusing on developing overall competence with the software before tackling any specific application Prepares the reader to work with commands, input files and other advanced techniques

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Techniques and Tools for Solving Acoustics Problems This is the first book of its kind that describes the use of ANSYS® finite element analysis (FEA) software, and MATLAB® engineering programming software to solve acoustic problems. It covers simple text book problems, such as

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determining the natural frequencies of a duct, to progressively more complex problems that can only be solved using FEA software, such as acoustic absorption and fluid-structure-interaction. It also presents benchmark cases that can be used as starting points for analysis. There are practical

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hints too for using ANSYS software. The material describes how to solve numerous problems theoretically, and how to obtain solutions from the theory using MATLAB engineering software, as well as analyzing the same problem using ANSYS Workbench and ANSYS Mechanical APDL. Developed for the

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Practicing Engineer Free downloads on <http://www.mecheng.adelaide.edu.au/avc/software>, including MATLAB source code, ANSYS APDL models, and ANSYS Workbench models
Includes readers' techniques and tips for new and experienced users of ANSYS software
Identifies bugs and

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deficiencies to help practitioners avoid making mistakes Acoustic Analyses Using MATLAB® and ANSYS® can be used as a textbook for graduate students in acoustics, vibration, and related areas in engineering; undergraduates in mechanical and electrical engineering; and as an

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authoritative reference for industry professionals.

The topology optimization method solves the basic engineering problem of distributing a limited amount of material in a design space. The first edition of this book has become the

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standard text on optimal design which is concerned with the optimization of structural topology, shape and material. This edition, has been substantially revised and updated to reflect progress made in modelling and computational procedures. It also encompasses a comprehensive and

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unified description of the state-of-the-art of the so-called material distribution method, based on the use of mathematical programming and finite elements. Applications treated include not only structures but also materials and MEMS.

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This book contains the edited versions of the papers presented at the Second International Workshop on Electric and Magnetic Fields held at the Katholieke Universiteit van Leuven (Belgium) in May 1994. This Workshop deals with numerical solutions of electromagnetic problems in real life applications. The

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topics include coupled problems (thermal, mechanical, electric circuits), CAD & CAM applications, 3D eddy current and high frequency problems, optimisation and application oriented numerical problems. This workshop was organised jointly by the AIM (Association of Engineers graduated

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from de Montefiore Electrical Institute)
together with the Departments of
Electrical Engineering of the
Katholieke Universiteit van Leuven
(Prof. R. Belmans), the University of
Gent (Prof. J. Melkebbek) and the
University of Liege (Prof. W. Legros).
These laboratories are working

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together in the framework of the Pole d'Attraction Interuniversitaire - Inter-University Attractie-Pole 51 - on electromagnetic systems led by the University of Liege and the research work they perform covers most of the topics of the Workshop. One of the principal aims of this Workshop was to

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provide a bridge between the electromagnetic device designers, mainly industrialists, and the electromagnetic field computation developers. Therefore, this book contains a continuous spectrum of papers from application of electromagnetic models in industrial

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design to presentation of new theoretical developments.

Designing structures using composite materials poses unique challenges due especially to the need for concurrent design of both material and structure. Students are faced with two

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options: textbooks that teach the theory of advanced mechanics of composites, but lack computational examples of advanced analysis; and books on finite element analysis that may or may not demonstrate very limited applications to composites. But now there is third option that makes

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the other two obsolete: Ever J. Barbero's Finite Element Analysis of Composite Materials. By layering detailed theoretical and conceptual discussions with fully developed examples, this text supplies the missing link between theory and implementation. In-depth discussions

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cover all of the major aspects of advanced analysis, including three-dimensional effects, viscoelasticity, edge effects, elastic instability, damage, and delamination. More than 50 complete examples using mainly ANSYSTM, but also including some use of MATLAB®, demonstrate how to

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use the concepts to formulate and execute finite element analyses and how to interpret the results in engineering terms. Additionally, the source code for each example is available for download online.

Cementing applied computational and analytical experience to a firm

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foundation of basic concepts and theory, Finite Element Analysis of Composite Materials offers a modern, practical, and versatile classroom tool for today's engineering classroom.

Finite element analysis is a basic foundational topic that all engineering

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majors need to understand in order for them to be productive engineering analysts for a variety of industries. This book provides an introductory treatment of finite element analysis with an overview of the various fundamental concepts and applications. It introduces the basic

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concepts of the finite element method and examples of analysis using systematic methodologies based on ANSYS software. Finite element concepts involving one-dimensional problems are discussed in detail so the reader can thoroughly comprehend the concepts and progressively build

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upon those problems to aid in analyzing two-dimensional and three-dimensional problems. Moreover, the analysis processes are listed step-by-step for easy implementation, and an overview of two dimensional and three-dimensional concepts and problems is also provided. In addition, multiphysics

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problems involving coupled analysis examples are presented to further illustrate the broad applicability of the finite element method for a variety of engineering disciplines. The book is primarily targeted toward undergraduate students majoring in civil, biomedical, mechanical,

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electrical, and aerospace engineering and any other fields involving aspects of engineering analysis.

Spotlight on Modern Transformer Design introduces a novel approach to transformer design using artificial intelligence (AI) techniques in

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combination with finite element method (FEM). Today, AI is widely used for modeling nonlinear and large-scale systems, especially when explicit mathematical models are difficult to obtain or completely lacking.

Moreover, AI is computationally efficient in solving hard optimization

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problems. Many numerical examples throughout the book illustrate the application of the techniques discussed to a variety of real-life transformer design problems, including: □ problems relating to the prediction of no-load losses; □ winding material selection; □ transformer

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design optimisation; □ and transformer selection. Spotlight on Modern Transformer Design is a valuable learning tool for advanced undergraduate and graduate students, as well as researchers and power engineering professionals working in electric utilities and industries, public

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authorities, and design offices.

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology,

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Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents

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of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

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