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This book combines essential finite

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element (FE) theory with a set of fourteen tutorials using relatively easy-to-use open source CAD, FE and other 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 stiffness for one dimensional bar and

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beam, two dimensional and three dimensional continuum elements, plate and shell elements are derived based on 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

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theoretical topics covered include element integration, element assembly, loads, boundary conditions, contact and a chapter devoted to material laws on elasticity, hyperelasticity and plasticity. A brief introduction to Computational Fluid Dynamics (CFD) is also included. The second half of this book presents a chapter

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on using tutorials containing information on code installation (on Windows) and getting started, and general hints on meshing, modelling and analysis. This is then followed by tutorials and exercises that cover linear, nonlinear and dynamic mechanical analysis, steady state and transient heat analysis, field analysis,

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fatigue, buckling and frequency analysis, a hydraulic pipe network analysis, and lastly two tutorials on CFD simulation. In each case theory is linked with application and exercises are included for further self-study. For these tutorials open source codes FreeCAD, CalculiX, FreeMAT and OpenFOAM are used. CalculiX is a

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comprehensive FE package covering linear, nonlinear and transient analysis. One particular benefit is that its format and structure is based on Abaqus, so knowledge gained is relevant to a leading commercial code. FreeCAD is primarily a powerful CAD modelling code, that includes good finite element meshing and

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modelling capabilities and is fully integrated with CalculiX. FreeMAT is used in three tutorials for numerical analysis demonstrating algorithms for explicit finite element and CFD analysis. And OpenFOAM is used for other CFD flow simulations. The primary aim of this book is to provide a unified text covering

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theory and practice, so a student can learn and experiment with these versatile and powerful analysis methods. It should be of value to both finite element courses and for student self-study.

This book contains selected papers of the 11th OpenFOAM® Workshop that was

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held in Guimarães, Portugal, June 26 - 30, 2016. The 11th OpenFOAM® Workshop had more than 140 technical/scientific presentations and 30 courses, and was attended by circa 300 individuals, representing 180 institutions and 30 countries, from all continents. The OpenFOAM® Workshop provided a

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forum for researchers, industrial users, software developers, consultants and academics working with OpenFOAM® technology. The central part of the Workshop was the two-day conference, where presentations and posters on industrial applications and academic research were shown. OpenFOAM®

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(Open Source Field Operation and Manipulation) is a free, open source computational toolbox that has a larger user base across most areas of engineering and science, from both commercial and academic organizations. As a technology, OpenFOAM® provides an extensive range of features to solve anything from

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complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics, among several others. Additionally, the OpenFOAM technology offers complete freedom to customize and extend its functionalities.

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With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology, fermentation technology for industrial applications has developed enormously in recent years. Reflecting these advances, Fermentation Processes Engineering in the Food

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The urban climate is continuously deteriorating. Urban heat lowers the quality of urban life, increases energy needs, and affects the urban socio-economy. Urban Climate Mitigation Techniques presents steps that can be

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taken to mitigate this situation through a series of innovative technologies and examples of best practices for the improvement of the urban climate. Including tools for evaluation and a comparative analysis, this book addresses anthropogenic heat, green areas, cool materials and pavements, outdoor shading

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structures, evaporative cooling and earth cooling. Case studies demonstrate the success and applicability of these measures in various cities throughout the world. Useful for urban designers, architects and planners, Urban Climate Mitigation Techniques is a step by step tour of the innovative technologies

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improving our urban climate, providing a holistic approach supported by well-established quantitative examples.

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A comprehensive text covering all aspects
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Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text

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for advanced study and practice. Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects. Key

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features: A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy. Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling. Regional developments worldwide are reviewed and

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representative projects are presented as case studies. Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers.

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Finite Element Analysis Applications: A Systematic and Practical Approach strikes a solid balance between more traditional FEA textbooks that focus primarily on theory, and the software specific guidebooks that help teach students and professionals how to use particular FEA

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software packages without providing the theoretical foundation. In this new textbook, Professor Bi condenses the introduction of theories and focuses mainly on essentials that students need to understand FEA models. The book is organized to be application-oriented, covering FEA modeling theory and skills

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directly associated with activities involved in design processes. Discussion of classic FEA elements (such as truss, beam and frame) is limited. Via the use of several case studies, the book provides easy-to-follow guidance on modeling of different design problems. It uses SolidWorks simulation as the platform so that students

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do not need to waste time creating geometries for FEA modelling. Provides a systematic approach to dealing with the complexity of various engineering designs
Includes sections on the design of machine elements to illustrate FEA applications
Contains practical case studies presented as tutorials to facilitate learning of FEA

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methods Includes ancillary materials, such as a solutions manual for instructors, PPT lecture slides and downloadable CAD models for examples in SolidWorks

This IBM® Redbooks® publication documents and addresses topics to provide step-by-step customizable application and

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programming solutions to tune application and workloads to use IBM Power Systems™ hardware architecture. This publication explores, tests, and documents the solution to use the architectural technologies and the software solutions that are available from IBM to help solve challenging technical and business

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problems. This publication also demonstrates and documents that the combination of IBM high-performance computing (HPC) solutions (hardware and software) delivers significant value to technical computing clients who are in need of cost-effective, highly scalable, and robust solutions. First, the book provides a

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high-level overview of the HPC solution, including all of the components that makes the HPC cluster: IBM Power System S822LC (8335-GTB), software components, interconnect switches, and the IBM Spectrum™ Scale parallel file system. Then, the publication is divided in three parts: Part 1 focuses on the

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developers, Part 2 focuses on the administrators, and Part 3 focuses on the evaluators and planners of the solution. The IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective

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HPC solutions that help uncover insights from vast amounts of client's data so they can optimize business results, product development, and scientific discoveries.

This IBM® Redbooks® publication demonstrates and documents that IBM Power Systems™ high-performance

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computing and technical computing solutions deliver faster time to value with powerful solutions. Configurable into highly scalable Linux clusters, Power Systems offer extreme performance for demanding workloads such as genomics, finance, computational chemistry, oil and gas exploration, and high-performance

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data analytics. This book delivers a high-performance computing solution implemented on the IBM Power System S822LC. The solution delivers high application performance and throughput based on its built-for-big-data architecture that incorporates IBM POWER8® processors, tightly coupled Field

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Programmable Gate Arrays (FPGAs) and accelerators, and faster I/O by using Coherent Accelerator Processor Interface (CAPI). This solution is ideal for clients that need more processing power while simultaneously increasing workload density and reducing datacenter floor space requirements. The Power S822LC

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offers a modular design to scale from a single rack to hundreds, simplicity of ordering, and a strong innovation roadmap for graphics processing units (GPUs). This publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost

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effective high-performance computing (HPC) solutions that help uncover insights from their data so they can optimize business results, product development, and scientific discoveries

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