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Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel
Congress President Wolfgang C.

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 stiffness for one dimensional bar and beam, two dimensional and three dimensional

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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 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 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 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.

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Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

1. Are you using ABAQUS for FEM simulations and would like to increase your efficiency? 2. After deciding to learn Python scripting, did you find it to be challenging and time consuming? 3. Did you find yourself demotivated and lost because of the scarcity of relevant learning resources or step-by-step tutorials? 4. Would you like to automate a lot of repetitive tasks that have to be performed on a daily basis? This unique book is author's sincere attempt to address these concerns by providing full python scripts for 9 problems from different categories with detailed comments and step-by-step explanations. Practice one chapter a day with this book and turbo-charge your ABAQUS skills in just 10 days. All the scripts in the book have been thoroughly tested and validated. So, the scripts as such or the ideas can be used to unleash the true potential of Python scripting for ABAQUS. Also, in the long run, some of these little-known techniques will become a part of your mental framework, which will help you reduce the trivial errors in FEM simulations and let you focus your energies on actual problem solving.

Automotive Accident Reconstruction: Practices and Principles introduces techniques for gathering information and interpreting evidence, and presents computer-based tools for analyzing crashes. This book provides theory, information and data sources, techniques of investigation, an interpretation of physical evidence, and practical tips for beginners. It also works as an ongoing reference for experienced reconstructionists. The book emphasizes three things: the theoretical foundation, the presentation of data sources,

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and the computer programs and spread sheets used to apply both theory and collected data in the reconstruction of actual crashes. It discusses the specific requirements of reconstructing rollover crashes, offers background in structural mechanics, and describes how structural mechanics and impact mechanics are applied to automobiles that crash. The text explores the treatment of crush energy when vehicles collide with each other and with fixed objects. It delves into various classes of crashes, and simulation models. The framework of the book starts backward in time, beginning with the analysis of post-crash vehicle motions that occurred without driver control. Applies time-reverse methods, in a detailed and rigorous way, to vehicle run-out trajectories, utilizing the available physical evidence Walks the reader through a collection of digital crash test data from public sources, with detailed instructions on how to process and filter the information Shows the reader how to build spread sheets detailing calculations involving crush energy and vehicle post-crash trajectory characteristics Contains a comprehensive treatment of crush energy This text can also serve as a resource for industry professionals, particularly with regard to the underlying physics.

This concise and clear introduction to the topic requires only basic knowledge of calculus and linear algebra - all other concepts and ideas are developed in the course of the book. Lucidly written so as to appeal to undergraduates and practitioners alike, it enables readers to set up simple mathematical models on their own and to interpret their results and those of others critically. To achieve this, many examples have been chosen from various fields, such as biology, ecology, economics, medicine, agricultural, chemical, electrical, mechanical and process engineering, which are subsequently discussed in detail. Based on the author's modeling and simulation experience in science and engineering and as a consultant, the book answers such basic questions as: What is a mathematical model? What types of models do exist? Which model

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is appropriate for a particular problem? What are simulation, parameter estimation, and validation? The book relies exclusively upon open-source software which is available to everybody free of charge. The entire book software - including 3D CFD and structural mechanics simulation software - can be used based on a free CAELinux-Live-DVD that is available in the Internet (works on most machines and operating systems).

The combination of readily available computing power and progress in numerical techniques has made nonlinear systems - the kind that only a few years ago were ignored as too complex - open to analysis for the first time. Now realistic models of living systems incorporating the nonlinear variation and anisotropic nature of physical properties can be solved numerically on modern computers to give realistically usable results. This has opened up new and exciting possibilities for the fusing of ideas from physiology and engineering in the burgeoning new field that is biomechanics. Computational Biomechanics presents pioneering work focusing on the areas of orthopedic and circulatory mechanics, using experimental results to confirm or improve the relevant mathematical models and parameters. Together with two companion volumes, Biomechanics: Functional Adaptation and Remodeling and the Data Book on Mechanical Properties of Living Cells, Tissues, and Organs, this monograph will prove invaluable to those working in fields ranging from medical science and clinical medicine to biomedical engineering and applied mechanics.

This report identifies outstanding safety issues and research needs for Plastics and Composite Intensive Vehicles (PCIV) to facilitate their safe deployment by 2020. A PCIV definition is proposed, which ensures that the weight and efficiency objectives are prerequisite. Potential safety benefits of automotive plastics and composites are reviewed, and safety specifications associated with each level of the Building Block approach are presented. Lessons

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learned from the racing industry and from limited production, high-performance supercars with extensive use of composite materials are summarized. Changes and additions to test and evaluation procedures due to PCIVs are discussed, with a focus on ensuring their compliance with Federal Motor Vehicle Safety Standards (FMVSS). Progress is summarized and research recommendations proposed in three topic areas pertinent to crashworthiness of PCIVs: material databases, crashworthiness test method development, and crash modeling.

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