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This book gives Abaqus users who make use of finite-element models in academic or prac titioner-based research the in-depth program knowledge that allows them to debug a

structural analysis model. The book provides many methods and guidelines for different analysis types and modes, that will help readers to solve problems that can arise with Abaqus if a

structural model fails to converge to a solution. The use of Abaqus affords a general checklist approach to debugging analysis models, which can also be applied to structural

analysis. The author uses step-by-step methods and detailed explanations of special features in order to identify the solutions to a variety of problems with finite-element models. The book promotes: • a

diagnostic mode of thinking concerning error messages; • better material definition and the writing of user material subroutines; • work with the Abaqus mesher and best practice in doing so; • the

writing of user element subroutines and contact features with convergence issues; and • consideration of hardware and software issues and a Windows HPC cluster solution. The methods and information

provided facilitate job diagnostics and help to obtain converged solutions for finite-element models regarding structural component assemblies in static or dynamic analysis. The

troubleshooting advice ensures that these solutions are both high-quality and cost-effective according to practical experience. The book offers an in-depth guide for students learning about

Abaqus, as each problem and solution are complemented by examples and straightforward explanations. It is also useful for academics and structural engineers wishing to debug Abaqus models on the basis of

error and warning messages that arise during finite-element modelling processing.

Developed from the author's graduate-level course on

advanced mechanics of composite materials, Finite Element Analysis of Composite Materials with Abaqus shows how powerful finite element tools address practical problems in the

structural analysis of composites. Unlike other texts, this one takes the theory to a hands-on level by actually solving

This book discusses the subject of wave/current

flow around a cylinder, the forces induced on the cylinder by the flow, and the vibration pattern of slender structures in a marine environment. The primary aim of the book is to describe the

flow pattern and the resulting load which develops when waves or current meet a cylinder. Attention is paid to the special case of a circular cylinder. The development in the forces is related to the

various flow patterns and is discussed in detail. Regular as well as irregular waves are considered, and special cases like wall proximities (pipelines) are also investigated. The book is

intended for MSc students with some experience in basic fluid mechanics and for PhD students. Contents:Flow Around a Cylinder in Steady CurrentForces on a Cylinder in Steady

CurrentFlow Around a Cylinder in Oscillatory FlowsForces on a Cylinder in Regular WavesMathematical and Numerical Treatment of Flow Around a CylinderDiffraction Effect. Forces on Large

BodiesForces on a Cylinder in Irregular WavesFlow-Induced Vibrations of a Free Cylinder in Steady CurrentsFlow-Induced Vibrations of a Free Cylinder in WavesVibrations of Marine PipelinesMathematical Modelling of

Flow-Induced Vibrations. Readership: Civil and ocean engineers. keywords:Pipelines;Offshore Structures;Hydroelastic Vibrations;Flow-induced Vibrations;Forces on Offshore Structures;Flow Around Offshore

Structures;Wave Loading;Vibrations;Waves;Steady Currents;Pipeline Stability;Diffraction;Irregular Waves;Oscillatory Flow;Mathematical Modelling;Coastal Structures;Marine Structure;Flow Loading;Vibration of Marine

Pipelines “The figures are very good. Many of them are photographs and sketches of aspects of flow that are sometimes difficult to explain in words. The references are extensive,

quoting many recent papers. The treatment of the subjects is up-to-date and particularly the chapters on numerical simulation and vibrations contain excellent synopses of new research, much

of it by the authors themselves. The style is lucid and the text is well-organized. This book can be highly recommended to anyone who deals with cylindrical structures." Professor J W Kamphuis Coastal

Engineering

Modal analysis is a discipline that has developed considerably during the last 30 years. Theoretical and Experimental Modal Analysis is a new book on modal analysis

aimed at a wide range of readers, from academics such as post-graduate students and researchers, to engineers in many industries who use modal analysis tools and need to improve their knowledge of the

subject. Divided into eight chapters, the book ranges from the basics of vibration theory and signal processing to more advanced topics, including identification techniques, substructural

coupling, structural modification, updating of finite element models and nonlinear modal analysis. There is also an entire chapter dedicated to vibration testing techniques. It

has been written with a diversity of potential readers in mind, so that all will be able to follow the book easily and assimilate the concepts involved.

The successful design and

construction of iconic new buildings relies on a range of advanced technologies, in particular on advanced modelling techniques. In response to the increasingly complex buildings

demanded by clients and architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and

design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners. It illustrates the modelling

techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake;

progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis . Resolution of these design problems are demonstrated using a range of

prestigious projects around the world, including the Buji Khalifa; Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps

required to begin a modelling exercise and showing how to select appropriate software tools to address specific design problems.

Since Lord Rayleigh introduced the idea of viscous damping in hisclassic work "The Theory of Sound" in 1877, it has become standardpractice to use this approach in dynamics, covering a wide

range ofapplications from aerospace to civil engineering. However, in themajority of practical cases this approach is adopted more formathematical convenience than for modeling the physics of vibra

tiondamping. Over the past decade, extensive research has been undertaken onmore general “non-viscous” damping models and vibrationof non-viscously damped systems. This book, along with a

relatedbook Structural Dynamic Analysis with Generalized Damping Models:Analysis, is the first comprehensive study to cover v ibrationproblems with general non-viscous damping. The author draws on

hisconsiderable research experience to produce a text c overing:parametr ic senistivity of damped systems; identification of viscousdamping; identification of non-viscous damping; and

some tools forthe quanitification of damping. The book is written from avibration theory standpoint, with numerous worked examples whichare relevant across a wide range of mechanical,

aerospace andstructural engineering applications. Contents 1. Parametric Sensitivity of Damped Systems. 2. Identification of Viscous Damping. 3. Identification of Non-viscous

Damping. 4. Quantification of Damping. About the Authors Sondipon Adhikari is Chair Professor of Aerospace Engineering atSwansea University, Wales. His wide-ranging and mult i-disciplinaryre

search interests include uncertainty quantification incomputational mechanics, bio- and nanomechanics, dynamics ofcomplex systems, inverse problems for linear and nonli neardynamics,

and renewable energy. He is a technical reviewer of 97international journals, 18 conferences and 13 funding bodies.He haswritten over 180 refereed journal papers, 120 refereed conferencepapers

and has authored or co-authored 15 book chapters.

This book reviews the most common state-of-the art methods for substructuring and model reduction and presents a

framework that encompasses most method, highlighting their similarities and differences. For example, popular methods such as Component Mode Synthesis, Hurty /Craig-Bampton, and the Rubin methods, which

are popular within finite element software, are reviewed. Similarly, exper imental-to-analytical substructuring methods such as impedance/freque ncy response based substructuring,

modal substructuring and the transmission simulator method are presented. The overarching mathematical concepts are reviewed, as well as practical details needed to implement the

methods. Various examples are presented to elucidate the methods, ranging from academic examples such as spring-mass systems, which serve to clarify the concepts, to real industrial case studies involving

automotive and aerospace structures. The wealth of examples presented reveal both the potential and limitations of the methods.

This book consists of selected peer-

reviewed papers presented at the NAFEMS India Regional Conference (NIRC 2018). It covers current topics related to advances in computer aided design and manufacturing. The book focuses on the latest

developments in engineering modelling and simulation, and its application to various complex engineering systems. Finite element method/finite element analysis, computational

fluid dynamics, and additive manufacturing are some of the key topics covered in this book. The book aims to provide a better understanding of contemporary product design and analyses, and hence will

be useful for researchers, academicians, and professionals.