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Xiaobin Le

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Failure Assessment of Thin-walled Structures with Particular Reference to Pipelines Lie Zhang,2010 This book describes integrity management procedures for thin walled structures such as gas pipelines It covers various methods for the analysis of crack growth in thin walled structures and the probability of failure evaluation of pipelines using the Monte Carlo simulation The focus of this book is on the practical applications of the boundary element method finite element method and probabilistic fracture mechanics Popular methods for SIF calculation crack growth are presented and the evaluation of failure probabilities based on BS7910 is also explained in detail The procedures described in the book can be used to optimise the maintenance of pipelines thereby reducing the operating costs This book will be of interest to pipeline engineers postgraduate students and university researchers   Simulation-Based Mechanical Design Xiaobin Le,2024-09-30 This book establishes a modern practical approach to mechanical design It introduces a full set of mechanical design theories and approaches to conduct and complete mechanical design tasks The book uses Finite Element Analysis FEA as a mechanical engineering tool to calculate stress strain and then integrate it with failure theory to complete the mechanical design FEA simulation always evaluates the stress and strain of any component assembly no matter whether components assemblies have complicated geometries and or are under complicated loading conditions   *Computational Mesomechanics of Composites* Leon L. Mishnaevsky, Jr,2007-08-20 Mechanical properties of composite materials can be improved by tailoring their microstructures Optimal microstructures of composites which ensure desired properties of composite materials can be determined in computational experiments The subject of this book is the computational analysis of interrelations between mechanical properties e g strength damage resistance stiffness and microstructures of composites The methods of mesomechanics of composites are reviewed and applied to the modelling of the mechanical behaviour of different groups of composites Individual chapters are devoted to the computational analysis of the microstructure mechanical properties relationships of particle reinforced composites functionally graded and particle clusters reinforced composites interpenetrating phase and unidirectional fiber reinforced composites and machining tools materials   *Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters* Xiaodong Fu,Yongtao Yang,Min Wang,Zetian Zhang,2022-10-19   Finite Element Analysis of Solids and Structures Sudip S. Bhattacharjee,2021-07-18 Finite Element Analysis of Solids and Structures combines the theory of elasticity advanced analytical treatment of stress analysis problems and finite element methods numerical details of finite element formulations into one academic course derived from the author s teaching research and applied work in automotive product development as well as in civil structural analysis Features Gives equal weight to the theoretical details and FEA software use for problem solution by using finite element software packages Emphasizes understanding the deformation behavior of finite elements that directly affect the quality of actual analysis results Reduces the focus on hand calculation of property matrices thus freeing up time to do more software

experimentation with different FEA formulations Includes chapters dedicated to showing the use of FEA models in engineering assessment for strength fatigue and structural vibration properties Features an easy to follow format for guided learning and practice problems to be solved by using FEA software package and with hand calculations for model validation This textbook contains 12 discrete chapters that can be covered in a single semester university graduate course on finite element analysis methods It also serves as a reference for practicing engineers working on design assessment and analysis of solids and structures Teaching ancillaries include a solutions manual with data files and lecture slides for adopting professors

ABAQUS/Standard Example Problems Manual Hibbitt, Karlsson and Sorensen, Inc..,1995 Advances in Manufacturing Engineering Seyed Sattar Emamian,Mokhtar Awang,Farazila Yusof,2020-08-31 This book presents selected papers from the 5th International Conference on Mechanical Manufacturing and Plant Engineering ICMMPE 2019 held in Kuala Lumpur Malaysia It highlights the latest advances in the area brings together researchers and professionals in the field and provides a valuable platform for exchanging ideas and fostering collaboration Joining technologies could be change to manufacturing technologies Addressing real world problems concerning joining technologies that are at the heart of various manufacturing sectors the respective papers present the outcomes of the latest experimental and numerical work on problems in soldering arc welding and solid state joining technologies technologies technologies technologies technologies technologies technologies technologies technologies technologies technologies **Challenges and Innovations in Geomechanics** Marco Barla,Alice Di Donna,Donatella Sterpi,2021-01-14 This book gathers the latest advances innovations and applications in the field of computational geomechanics as presented by international researchers and engineers at the 16th International Conference of the International Association for Computer Methods and Advances in Geomechanics IACMAG 2020 21 Contributions include a wide range of topics in geomechanics such as monitoring and remote sensing multiphase modelling reliability and risk analysis surface structures deep structures dams and earth structures coastal engineering mining engineering earthquake and dynamics soil atmosphere interaction ice mechanics landfills and waste disposal gas and petroleum engineering geothermal energy offshore technology energy geostructures geomechanical numerical models and computational rail geotechnics **Getting Started with ABAQUS/Standard** ,2002 ABAQUS/Explicit ,1998 **ABAQUS/standard** ,1997 **ABAQUS Theory Manual** ,1997 **Computational Methods for Crashworthiness. Proceedings of a Workshop** Ahmed Khairy Noor,1993 Press-fit Fixation and Viscoelastic Response of a Bone-implant Interface in the Distal Femur Travis Allen Burgers,2008 **Proceedings of the IEEE Workshop on Mathematical Methods in Biomedical Image Analysis** ,2001 **Fusion Technology** ,1996 **THERMEC'2003** Tetsuo Sakai,Jose M. Torralba,2003 Computer Aided Design in Electronic Packaging American Society of Mechanical Engineers. Winter Annual Meeting,1992 **A Study of Conductivity in a Complex Geometry** Sangil Hyun,1998 **NAFEMS Advanced Workbook of Examples** ,2000

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