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SEVENTH EDITION

ANALYTICAL MECHANICS



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Peter Smith Michie



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approach to introduce the use of a finite element simulation within a computer aided design CAD tool environment It does not center on formulae and the theory of FEM in fact it contains essentially no theory on FEM other than practical guidelines The book is self contained and enables the reader to progress independently without an instructor It is a valuable guide for students educators and practicing professionals who wish to forego commercial training programs but need to refresh or improve their knowledge of the subject Classroom Tested with Figures Examples and Homework Problems The book contains more than 300 illustrations and extensive explanatory notes covering the features of the SolidWorks SW Simulation software The author presents commonly used examples and techniques highlighting the close interaction between CAD modelling and FE analysis She describes the stages and program demands used during static analysis details different cases and explores the impact of selected options on the final result In addition the book includes hands on exercises program commands and a summary after each chapter Explores the static studies of simple bodies to more complex structures Considers different types of loads and how to start the loads property managers Studies the workflow of the run analysis and discusses how to assess the feedback provided by the study manager Covers the generation of graphs Determines how to assess the quality of the created mesh based on the final results and how to improve the accuracy of the results by changing the mesh properties Examines a machine unit with planar symmetrical geometry or with circular geometry exposed to symmetrical boundary conditions Compares 3D FEA to 2D FEA Discusses the impact of the adopted calculating formulation by comparing thin plate results to thick plate results Introduction to Static Analysis using SolidWorks Simulation equips students educators and practicing professionals with an in depth understanding of the features of SW Simulation applicable to static analysis FEA FEM

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in further research An excellent text for upper level undergraduate or first year graduate courses on computational methods for inverse ill posed problems this book will also serve as a valuable reference work for professionals interested in modeling inverse phenomena **Journal of Guidance, Control, and Dynamics** ,2007

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