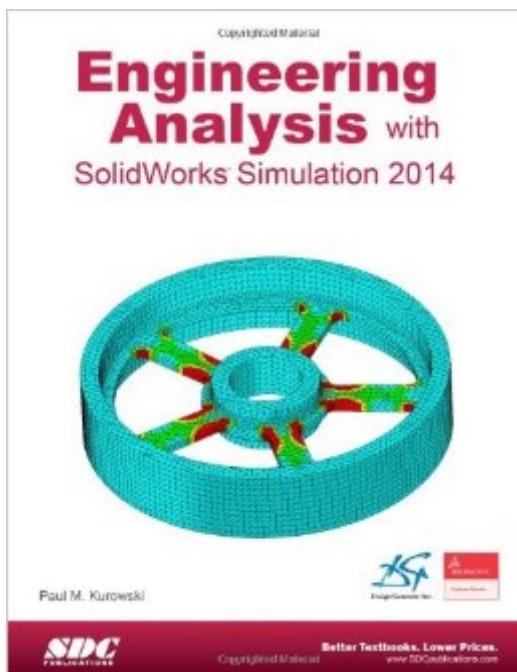


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# Engineering Analysis With SolidWorks Simulation 2014



## Synopsis

Engineering Analysis with SolidWorks Simulation 2014 goes beyond the standard software manual. Its unique approach concurrently introduces you to the SolidWorks Simulation 2014 software and the fundamentals of Finite Element Analysis (FEA) through hands-on exercises. A number of projects are presented using commonly used parts to illustrate the analysis features of SolidWorks Simulation. Each chapter is designed to build on the skills, experiences and understanding gained from the previous chapters. Topics covered: Linear static analysis of parts and assemblies Contact stress analysis Frequency (modal) analysis Buckling analysis Thermal analysis Drop test analysis Nonlinear analysis Dynamic analysis Random vibration analysis h and p adaptive solution methods Modeling techniques Implementation of FEA in the design process Management of FEA projects FEA terminology Table of Contents Introduction Static analysis of a plate Static analysis of an L-bracket Stress and frequency analysis of a pipe support Static analysis of a link Frequency analysis of a tuning fork and a plastic part Thermal analysis of a pipe connector and heater Thermal analysis of a heat sink Static analysis of a hanger Thermal stress analysis of a bi-metal loop Buckling analysis of I-beam Static analysis of a bracket using adaptive solution methods Drop test Selected nonlinear problems Mixed meshing problem Analysis of a weldment using beam elements Review of 2D problems Vibration Analysis - Modal Time History and Harmonic Analysis of random vibration Miscellaneous topics Implementation of FEA into the design process Glossary of terms Resources available to FEA users List of exercises

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Great help in learning how to use solidworks

Great book recommend to everyone

Barely touched on non-linear. Good introduction book.

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