

Machine Elements using SolidWorks Simulation 2009



Engineering Analysis with SolidWorks Simulation 2009 goes beyond the standard software manual because its unique approach concurrently introduces you to the SolidWorks Simulation 2009 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. This book covers the following FEA functionality of SolidWorks Simulation 2009: Linear static analysis of parts and assemblies Frequency (modal) analysis Buckling analysis Thermal analysis Drop test analysis Optimization analysis Nonlinear analysis Dynamic analysis Table of Contents Before You Start 1. Introduction 2. Static analysis of a plate 3. Static analysis of an L-bracket 4. Stress and frequency analysis of a thin plate 5. Static analysis of a link 6. Frequency analysis of a tuning fork 7. Thermal analysis of a pipeline component and heater 8. Thermal analysis of a heat sink 9. Static analysis of a hanger 10. Analysis of contact stress between two plates 11. Thermal stress analysis of a bi-metal beam 12. Buckling analysis of an L-beam 13. Design optimization of a plate in tension 14. Static analysis of a bracket using adaptive solution methods 15. Design sensitivity analysis of hinge supported beam 16. Drop test of a porcelain ring 17. Selected nonlinear problems 18. Mixed meshing problem 19. Analysis of a weldment using beam elements 20. Dynamic Analysis - Modal Time History and Harmonic 21. Analysis of random vibration 22. Miscellaneous topics 23. Implementation of FEA into the design process 24. Glossary of terms 25. Resources available to FEA Users

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