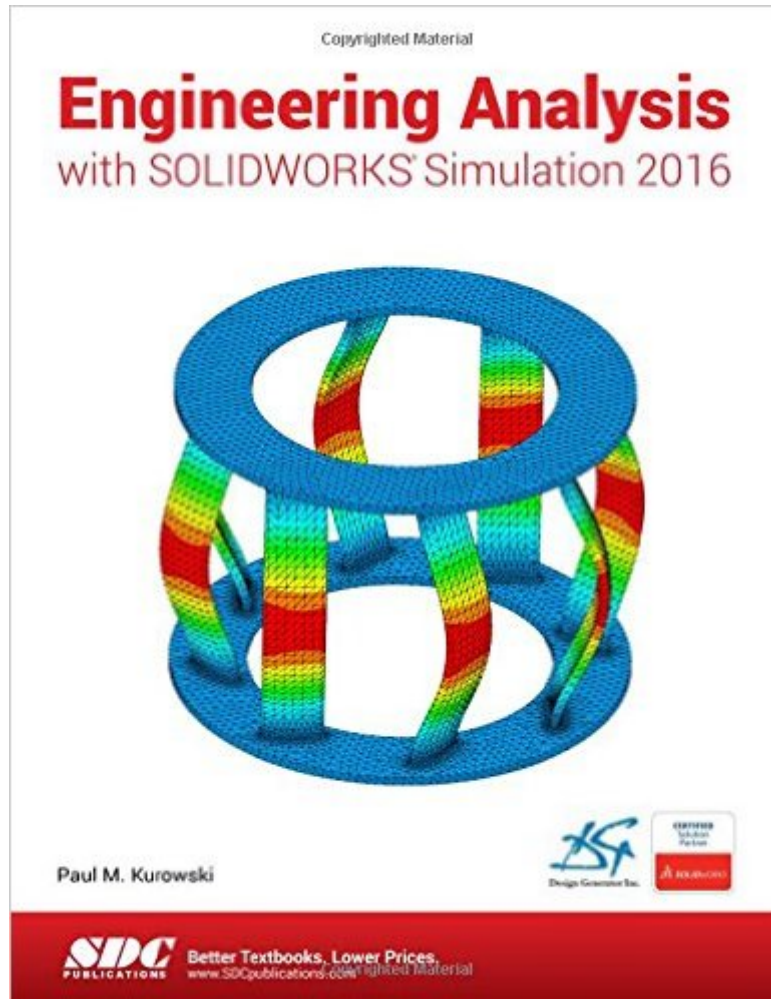# Engineering Analysis With SOLIDWORKS Simulation 2016

# Synopsis

Engineering Analysis with SOLIDWORKS Simulation 2016 goes beyond the standard software manual. Its unique approach concurrently introduces you to the SOLIDWORKS Simulation 2016 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. Table of Contents 1. Introduction 2. Static analysis of a plate 3. Static analysis of an L-bracket 4. Static and frequency analysis of a pipe support 5. Static analysis of a link 6. Frequency analysis of a tuning fork and a plastic part 7. Thermal analysis of a pipe connector and heater 8. Thermal analysis of a heat sink 9. Static analysis of a hanger 10. Thermal stress analysis of a bi- metal loop 11. Buckling analysis of I-beam 12. Static analysis of a bracket using adaptive solution methods 13. Drop test 14. Selected nonlinear problems 15. Mixed meshing problem 16. Analysis of a weldment using beam elements 17. Review of 2D problems 18. Vibration Analysis - Modal Time History and Harmonic 19. Analysis of random vibration 20. Miscellaneous topics 21. Implementation of FEA into the design process 22. Glossary of terms 23. Resources available to FEA users 24. List of exercises

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