



# Vibration Analysis with **SOLIDWORKS** Simulation 2016

*Paul Kurowski*

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## **Vibration Analysis with SOLIDWORKS Simulation 2016** Paul Kurowski

Vibration Analysis with SOLIDWORKS Simulation 2016 goes beyond the standard software manual. It concurrently introduces the reader to vibration analysis and its implementation in SOLIDWORKS Simulation using hands-on exercises. A number of projects are presented to illustrate vibration analysis and related topics. Each chapter is designed to build on the skills and understanding gained from previous exercises.

Vibration Analysis with SOLIDWORKS Simulation 2016 is designed for users who are already familiar with the basics of Finite Element Analysis (FEA) using SOLIDWORKS Simulation or who have completed the book Engineering Analysis with SOLIDWORKS Simulation 2016. Vibration Analysis with SOLIDWORKS Simulation 2016 builds on these topics in the area of vibration analysis. Some understanding of structural analysis and solid mechanics is recommended.

## **Topics Covered**

- Differences between rigid and elastic bodies
- Discrete and distributed vibration systems
- Modal analysis and its applications
- Modal Superposition Method
- Modal Time History (Time Response) analysis
- Harmonic (Frequency Response) analysis
- Random Vibration analysis
- Response Spectrum analysis
- Nonlinear Vibration analysis
- Modeling techniques in vibration analysis

## **Table of Contents**

Before you start

1. Introduction to vibration analysis
2. Introduction to modal analysis
3. Modal analysis of distributed systems
4. Modal analysis the effect of pre-stress
5. Modal analysis - properties of lower and higher modes
6. Modal analysis mass participation, properties of modes
7. Modal analysis mode separation
8. Modal analysis of axi-symmetric structures
9. Modal analysis locating structurally weak spots
10. Modal analysis a diagnostic tool
11. Time response and frequency response of discrete systems
12. Harmonic base excitation of distributed systems
13. Omega square harmonic force excitation
14. Time response analysis, resonance, beating
15. Vibration absorption

16. Random Vibration
17. Response Spectrum analysis
18. Nonlinear vibration
19. Vibration benchmarks
20. Glossary of terms
21. References
22. List of exercises

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