



Mechanism Design with Pro/ENGINEER Wildfire 4.0

Kuang-Hua Chang

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Mechanism Design with Pro/ENGINEER Wildfire 4.0 is designed to help you become familiar with Mechanism Design, a module in the Pro/ENGINEER software family, which supports modeling and analysis (or simulation) of mechanisms in a virtual (computer) environment.

The book is written following a project-based learning approach and is intentionally kept simple to help you learn Mechanism Design. The book covers most of the major concepts and frequently used commands required to advance readers from a novice to an intermediate level. Basic concepts discussed include: model creation, such as body and joint definitions; analysis type selection, such as static (assembly) analysis, kinematics and dynamics; and results visualization. The concepts are introduced using simple, yet realistic, examples.

Verifying the results obtained from computer simulation is extremely important. One of the unique features of this textbook is the incorporation of theoretical discussions for kinematic and dynamic analyses in conjunction with simulation results obtained using Mechanism Design. The theoretical discussions simply support the verification of simulation results rather than providing an in-depth discussion on the subjects of kinematics and dynamics.

Table of Contents

1. Introduction to Mechanism Design
2. The Ball Throwing Example
3. A Spring Mass System
4. A Simple Pendulum
5. A Slider-Crank Mechanism
6. A Compound Spur Gear Train
7. Planetary Gear Train Systems
8. Cam and Follower
9. Assistive Device for Wheelchair Soccer Game
10. Kinematic Analysis for Racecar Suspension
- Appendix A: Defining Joints
- Appendix B: Defining Measures
- Appendix C: The Default Unit System
- Appendix D: The Magnitude Settings

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