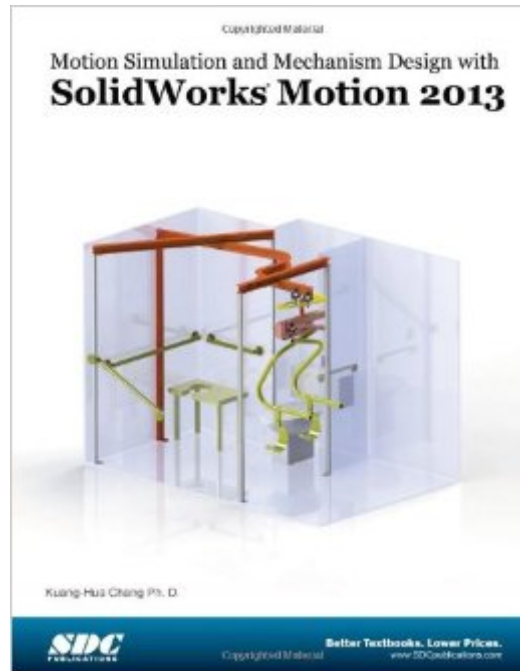


The book was found

Motion Simulation And Mechanism Design With SolidWorks Motion 2013



Synopsis

Motion Simulation and Mechanism Design with SolidWorks Motion 2013 is written to help you become familiar with SolidWorks Motion, an add-on module of the SolidWorks software family. This book covers the basic concepts and frequently used commands required to advance readers from a novice to intermediate level in using SolidWorks Motion. SolidWorks Motion allows you to use solid models created in SolidWorks to simulate and visualize mechanism motion and performance. Using SolidWorks Motion early in the product development stage could prevent costly redesign due to design defects found in the physical testing phase. Therefore, using SolidWorks Motion contributes to a more cost effective, reliable, and efficient product design process. Basic concepts discussed in this book include model generation, such as creating assembly mates for proper motion; carrying out simulation and animation; and visualizing simulation results, such as graphs and spreadsheet data. These concepts are introduced using simple, yet realistic examples. Verifying the results obtained from the computer simulation is extremely important. One of the unique features of this book is the incorporation of theoretical discussions for kinematic and dynamic analyses in conjunction with the simulation results obtained using SolidWorks Motion. Verifying the simulation results will increase your confidence in using the software and prevent you from being fooled by erroneous simulations.

Table of Contents

1. Introduction to SolidWorks Motion
2. Animation and Basic Motion - A Single Piston Engine Example
3. A Ball Throwing Example
4. A Simple Pendulum
5. A Spring Mass System
6. A Slider-Crank Mechanism
7. A Rail-Carriage Example
8. A Compound Spur Gear Train
9. Cam and Follower

Appendix A: Defining Joints
Appendix B: The Unit Systems
Appendix C: Importing Pro/ENGINEER Parts and Assemblies

Book Information

Perfect Paperback: 132 pages

Publisher: SDC Publications (March 10, 2014)

Language: English

ISBN-10: 1585039020

ISBN-13: 978-1585039029

Product Dimensions: 0.5 x 8.2 x 10.8 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #742,299 in Books (See Top 100 in Books) #72 in Books > Computers & Technology > Graphics & Design > CAD > Solidworks #847 in Books > Computers & Technology

> Graphics & Design > Computer Modelling #1164 in Books > Arts & Photography > Architecture
> Drafting & Presentation

[Download to continue reading...](#)

Motion Simulation and Mechanism Design with SolidWorks Motion 2013 Motion Simulation and Mechanism Design with SOLIDWORKS Motion 2016 Thermal Analysis with SOLIDWORKS Simulation 2016 and Flow Simulation 2016 Engineering Analysis with SolidWorks Simulation 2013 Introduction to Finite Element Analysis Using SolidWorks Simulation 2013 Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA (SolidWorks 2015, 2014, 2013, and 2012) Official Guide to Certified SolidWorks Associate Exams - CSWA, CSDA, CSWSA-FEA (SolidWorks 2012 - 2013) Dynamic Allocation and Pricing: A Mechanism Design Approach (Arne Ryde Memorial Lectures) Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB® and Simulink® (Modeling and Simulation in Science, Engineering and Technology) Engineering Analysis with SOLIDWORKS Simulation 2016 Analysis of Machine Elements Using SolidWorks Simulation 2014 Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2016 Analysis of Machine Elements Using SOLIDWORKS Simulation 2016 Introduction to Finite Element Analysis Using SolidWorks Simulation 2014 Engineering Analysis with SOLIDWORKS Simulation 2015 Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 Engineering Analysis with SolidWorks Simulation 2014 An Introduction to SOLIDWORKS Flow Simulation 2016 Vibration Analysis with SOLIDWORKS Simulation 2015 An Introduction to SolidWorks Flow Simulation 2014

[Dmca](#)