Computer-Aided Engineering Design with SolidWorks

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Computer-Aided Engineering Design with SolidWorks is designed for students taking SolidWorks courses at college and university, and also for engineering designers involved or interested in using SolidWorks for real-life applications in manufacturing processes, mechanical systems, and engineering analysis. The course material is divided into two parts. Part I covers the principles of SolidWorks, simple and advanced part modeling approaches, assembly modeling, drawing, configurations/design tables, and surface modeling. Part II covers the applications of SolidWorks in manufacturing processes, mechanical systems, and engineering analysis. The manufacturing processes applications include mold design, sheet metal parts design, die design, and weldments. The mechanical systems applications include: routing, piping and tubing, gears, pulleys and chains, cams and springs, mechanism design and analysis, threads and fasteners, hinges, and universal joints. The sections on engineering analysis also include finite element analysis.

This textbook is unique because it is one of the very few to thoroughly cover the applications of SolidWorks in manufacturing processes, mechanical systems, and engineering analysis, as presented in Part II.

It is written using a hands-on approach in which students can follow the steps described in each chapter to: model and assemble parts, produce drawings, and create applications on their own with little assistance from their instructors during each teaching session or in the computer laboratory. There are pictorial descriptions of the steps involved in every stage of part modeling, assembly modeling, drawing details, and applications presented in this textbook.

Supplementary Material(s)
For Users (2 MB)

Contents:

- *SolidWorks Principles in Engineering Design:*
  - SolidWorks Overview
  - Sketch Entities and Tools
  - Features
  - Intermediate Part Modeling
  - Advanced Part Modeling
  - Revolved, Swept, and Lofted Parts
  - Assembly Modeling
  - Part and Assembly Drawings
  - Configurations and Design Tables
  - Surface Modeling
- *SolidWorks Applications in Manufacturing Processes, Mechanical Systems and Engineering Analysis:*
  - Mold Design
  - Sheet Metal Part Design
  - Die Design
  - Weldments
  - Routings: Piping and Tubing
  - Power Transmission Elements

- ○ Cam Design
- ○ Mechanism Design Using Blocks
- ○ Threads and Fasteners
- ○ Finite Element Analysis Using SolidWorks

Readership: Advanced undergraduates and graduate students, academia and researchers in mechanical engineering and other areas in this field.

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