



# Engineering Design and Graphics with SolidWorks 2016

By James D. Bethune

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**Engineering Design and Graphics with SolidWorks 2016** By James D. Bethune

**Engineering Design and Graphics with SolidWorks 2016** shows students how to use SolidWorks to create engineering drawings and designs. The textbook has been updated to cover the new features in SolidWorks 2016. It focuses on the creation of engineering drawings, including dimensions and tolerances and the use of standard parts and tools. Each chapter contains step-by-step sample problems that show students how to apply the concepts presented in the chapter.

Effective pedagogy throughout the text helps students learn and retain concepts:

- **Objectives:** Each chapter begins with objectives and an introduction to the material.
- **Summaries:** Each chapter concludes with a summary and exercise problems.
- **Numerous illustrations:** The multitude of illustrations, accompanied by explanatory captions, present a visual approach to learning. Students see in the text what they see on the screen with the addition of explanatory text.
- **Practical application:** The text provides hundreds of exercise projects of varying difficulty (far more than any other computer graphics text). These exercises reinforce each chapter's content and help students learn by doing.
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- **Meets standards:** The text teaches ANSI standards for dimensions and tolerances. This helps students understand how their designs are defined for production and the importance of proper tolerancing.
- **Step-by-step approach:** In presenting the fundamentals of engineering drawing using SolidWorks, the text uses a step-by-step approach that allows students to work and learn at their own pace.



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#### **About the Author**

**James (Jim) Bethune** taught drafting and Computer Aided-Design (CAD) for 39 years, twice winning the Outstanding Professor of the year award. He has a doctor's degree in education from Boston University and has written more than books on drafting and CAD. While retired from full-time teaching, Jim continues to write textbooks on CAD. An avid golfer, Jim lives in East Greenwich, Rhode Island.

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