



Computer-aided Engineering Design With Solidworks (Hardback)

By Godfrey Onwubolu

Imperial College Press, United Kingdom, 2013. Hardback. Condition: New. Language: English . Brand New Book. 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...



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