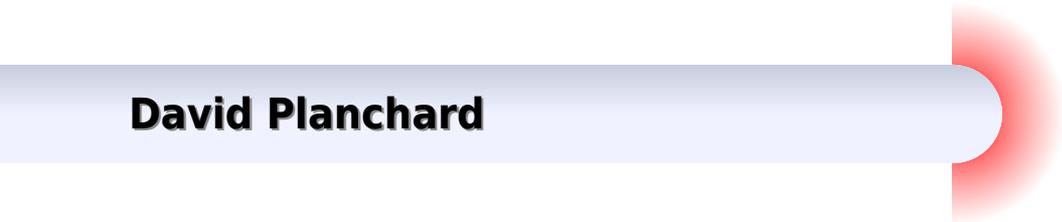


# Exercise 179 SolidWorks

# Solidworks Tutorial A Step By

**David Planchard**



## **Solidworks Tutorial A Step By :**

**SolidWorks 2003 tutorial** David C. Planchard, Marie P. Planchard, 2003 **Solidworks 2020 Sdcad** Academy, 2021-01-15 SOLIDWORKS 2020 A Step By Step Tutorial Guide for Beginners Mixed Units textbook is intended to help students designers engineers and professionals who are interested in learning SOLIDWORKS step by step for creating real world 3D mechanical designs It is a great starting point for new users of SOLIDWORKS and for those moving from other CAD software This textbook contains tutorials that provide users with step by step instructions for creating parametric 3D solid components assemblies and 2D drawings with ease Every tutorial in this textbook is created based on real world projects This textbook consists of 11 chapters a total of 428 pages covering major environments of SOLIDWORKS such as Part modeling environment Assembly environment and Drawing environment including configurations Every chapter ends with exercises that allow users to experience for themselves the user friendly and powerful capacities of SOLIDWORKS which help users to assess their knowledge Table of Contents Chapter 1 Introduction to SOLIDWORKS Chapter 2 Creating and Editing Sketches Chapter 3 Creating Extrude and Revolve Features Chapter 4 Creating Multi Feature 3D Models Chapter 5 Creating Sweep and Loft Features Chapter 6 Creating Holes Threads and Shell Features Chapter 7 Creating 3D Sketches and Helical Curves Chapter 8 Working with Configurations Chapter 9 Creating Assemblies Using Bottom up Approach Chapter 10 Creating Assemblies Using Top down Approach Chapter 11 Creating 2D Drawings **SolidWorks 2014 Tutorial with Video Instruction** David Planchard, 2014 SolidWorks 2014 Tutorial with video instruction is targeted towards a technical school two year college four year university or industry professional that is a beginner or intermediate CAD user The text provides a student who is looking for a step by step project based approach to learning SolidWorks with video instruction SolidWorks model files and preparation for the Certified Associate Mechanical Design CSWA exam The book is divided into two sections Chapters 1 5 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features Chapters 6 9 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry **SOLIDWORKS 2022 Tutorial** David

Planchard,2022-04 Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing SOLIDWORKS 2022 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SOLIDWORKS in industry

**Solidworks 2021: A Step-By-Step Tutorial Guide for Beginners (Mixed Units)** Sdcad Academy,2021-02 SOLIDWORKS 2021 A Step By Step Tutorial Guide for Beginners Mixed Units textbook is intended to help students designers engineers and professionals who are interested in learning SOLIDWORKS step by step for creating real world 3D mechanical designs It is a great starting point for new users of SOLIDWORKS and for those moving from other CAD software This textbook contains tutorials that provide users with step by step instructions for creating parametric 3D solid components assemblies and 2D drawings with ease Every tutorial in this textbook is created based on real world projects This textbook consists of 11 chapters a total of 428 pages covering major environments of SOLIDWORKS such as Part modeling environment Assembly environment and Drawing environment including configurations Every chapter ends with exercises that allow users to experience for themselves the user friendly and powerful capacities of SOLIDWORKS which help users to assess their knowledge

**Solidworks 2007 Tutorial with Multimedia CD** David C. Planchard,Marie P. Planchard,2007 SolidWorks 2007 Tutorial was written to assist students designers engineers and professionals The book provides an introduction to the user interface menus toolbars concepts and

modeling techniques of SolidWorks to create parts assemblies and drawings Follow the step by step instructions and develop multiple assemblies that combine over 80 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations Review 2 hours of flash movie files that follow the steps in the book Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Project 1 through Project 4 to achieve your design goals Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Table of Contents Introduction 1 Linkage Assembly 2 Front Support Assembly 3 Fundamentals of Drawing 4 Pneumatic Test Module Assembly Appendix Index

**SOLIDWORKS 2023 Tutorial** David Planchard,2023-05-04 SOLIDWORKS 2023 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SOLIDWORKS in industry

**Mastering SolidWorks** Matt Lombard,2018-10-26 The complete SolidWorks reference tutorial for beginner to advanced techniques Mastering SolidWorks is the reference tutorial for all users Packed with step by step instructions video tutorials for over 40 chapters and coverage of little known techniques this book takes you from novice to power user with clear instruction that goes beyond the basics Fundamental techniques are detailed with real world examples for hands on learning and the companion website provides tutorial files for all exercises Even veteran users

will find value in new techniques that make familiar tasks faster easier and more organized including advanced file management tools that simplify and streamline pre flight checks SolidWorks is the leading 3D CAD program and is an essential tool for engineers mechanical designers industrial designers and drafters around the world User friendly features such as drag and drop point and click and cut and paste tools belie the software s powerful capabilities that can help you create cleaner more precise more polished designs in a fraction of the time This book is the comprehensive reference every SolidWorks user needs with tutorials background and more for beginner to advanced techniques Get a grasp on fundamental SolidWorks 2D and 3D tasks using realistic examples with text based tutorials Delve into advanced functionality and capabilities not commonly covered by how to guides Incorporate improved search Pack and Go and other file management tools into your workflow Adopt best practices and exclusive techniques you won t find anywhere else Work through this book beginning to end as a complete SolidWorks course or dip in as needed to learn new techniques and time saving tricks on demand Organized for efficiency and designed for practicality these tips will remain useful at any stage of expertise With exclusive coverage and informative detail Mastering SolidWorks is the tutorial reference for users at every level of expertise

**SolidWorks 2001 Tutorial** Marie P. Planchard,David C. Planchard,2001 [SOLIDWORKS 2016 Tutorial with Video Instruction](#) David Planchard,2016-01-11 SOLIDWORKS 2016 Tutorial with Video Instruction is targeted towards a technical school two year college four year university or industry professional that is a beginner or intermediate CAD user The text provides a student who is looking for a step by step project based approach to learning SOLIDWORKS with video instruction SOLIDWORKS model files and preparation for the Certified Associate Mechanical Design CSWA exam The book is divided into three sections Chapters 1 6 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Review Chapter 11 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SOLIDWORKS in industry **SOLIDWORKS 2019 Tutorial** David Planchard,2018-12-21 SOLIDWORKS 2019 Tutorial is written to assist students designers engineers and professionals

who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SOLIDWORKS in industry [SOLIDWORKS 2024 Tutorial](#) David Planchard,2024-02 Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing This edition includes a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform Get ready to take your 3D CAD skills to the next level with SOLIDWORKS 2024 Tutorial Whether you re a student designer engineer or professional who s new to SOLIDWORKS this book is the ultimate guide to mastering SOLIDWORKS impressive capabilities And if you re preparing for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam you re in luck because this book has got you covered Featuring a project based learning approach and step by step instructions the first six chapters cover the User Interface CommandManager Document and System properties and beyond with exploration of everything from design intent and design tables to configurations multi sheet drawings BOMs and Revision tables Use basic and advanced features to create simple and complex parts and assemblies And for the grand finale chapter 6 takes you through the creation of a robot assembly complete with all the assemblies and components you ll need Information and examples on the five categories in the CSWA exam are embedded throughout the book but chapters 7 10 specifically focus on preparation for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam which will confirm you have a foundation in and apprentice knowledge of 3D CAD and engineering principles And for those looking to

explore the exciting world of additive manufacturing 3D printing chapter 11 presents the benefits of 3D printing how it differs from subtractive manufacturing and the terminology and technology used in low cost 3D printers With clear concise instructions and desired outcomes listed for each chapter of the tutorial you ll know exactly what you re working towards every step of the way Work between multiple documents features and commands like a pro Build multiple assemblies that combine over 100 extruded machined parts and components and develop the skills to create modify and edit sketches and solid features Plus you ll learn how to reuse features parts and assemblies through symmetry patterns copied components and more Start learning by doing and become a 3D CAD expert with SOLIDWORKS 2024 Tutorial Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform

**SolidWorks 2011 Tutorial** David C. Planchard, Marie P. Planchard, 2011-02-11 SolidWorks 2011 Tutorial with Multimedia CD is target towards a technical school two year college four year university or industry professional that is a beginner or intermediate CAD user The text provides a student who is looking for a step by step project based approach to learning SolidWorks with an enclosed 1 5 hour Multi media CD SolidWorks model files and preparation for the CSWA exam The book is divided into two sections Chapters 1 7 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies design tables configurations multi sheet multiview drawings BOMs Revision tables using basic and advanced features along with Intelligent Modeling Techniques SustainabilityXpress SimulationXpress and DFMXpress Chapters 8 11 prepare you for the new Certified SolidWorks Associate Exam CSWA that was released this year The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers

and designers utilize SolidWorks in industry

**Introduction to Solid Modeling Using SolidWorks** William E. Howard, Joseph C. Musto, 2006 Geared toward in an introductory course in solid modeling Introduction to Solid Modeling Using SolidWorks by Edward Howard and Joseph Musto of East Carolina University and the Milwaukee School of Engineering respectively teaches solid modeling using SolidWorks The text presents solid modeling not just as a communication tool but as an integral part of the design process To this end the book explores design intent the use of solid models in engineering analysis and introduces techniques from manufacturing such as mold design and sheet metal patterning Howard and Musto provide a student friendly presentation filled with easy to use tutorials Their approach is also designed to help students understand how engineering is used in the real world For instance modeling exercises are largely centered on examples drawn from industrial applications As well Future Study boxes introduce students to different topics they will study in their engineering programs

e-Design Kuang-Hua Chang, 2016-02-23 e Design Computer Aided Engineering Design Revised First Edition is the first book to integrate a discussion of computer design tools throughout the design process Through the use of this book the reader will understand basic design principles and all digital design paradigms the CAD CAE CAM tools available for various design related tasks how to put an integrated system together to conduct All Digital Design ADD industrial practices in employing ADD and tools for product development Comprehensive coverage of essential elements for understanding and practicing the e Design paradigm in support of product design including design method and process and computer based tools and technology Part I Product Design Modeling discusses virtual mockup of the product created in the CAD environment including not only solid modeling and assembly theories but also the critical design parameterization that converts the product solid model into parametric representation enabling the search for better design alternatives Part II Product Performance Evaluation focuses on applying CAE technologies and software tools to support evaluation of product performance including structural analysis fatigue and fracture rigid body kinematics and dynamics and failure probability prediction and reliability analysis Part III Product Manufacturing and Cost Estimating introduces CAM technology to support manufacturing simulations and process planning sheet forming simulation RP technology and computer numerical control CNC machining for fast product prototyping as well as manufacturing cost estimate that can be incorporated into product cost calculations Part IV Design Theory and Methods discusses modern decision making theory and the application of the theory to engineering design introduces the mainstream design optimization methods for both single and multi objectives problems through both batch and interactive design modes and provides a brief discussion on sensitivity analysis which is essential for designs using gradient based approaches Tutorial lessons and case studies are offered for readers to gain hands on experiences in practicing e Design paradigm using two suites of engineering software Pro ENGINEER based including Pro MECHANICA Structure Pro ENGINEER Mechanism Design and Pro MFG and SolidWorks based including SolidWorks Simulation SolidWorks Motion and CAMWorks Available on

the companion website <http://booksite.elsevier.com/9780123820389>

## **Product Design Modeling using CAD/CAE**

Kuang-Hua Chang, 2014-01-20 Product Design Modeling using CAD/CAE is the third part of a four part series. It is the first book to integrate discussion of computer design tools throughout the design process. Through this book you will understand basic design principles and all digital design paradigms. Understand computer aided design engineering and manufacturing. CAD/CAE/CAM tools available for various design related tasks. Understand how to put an integrated system together to conduct all digital design. ADD provides a comprehensive and thorough coverage of essential elements for product modeling using the virtual engineering paradigm. Covers CAD/CAE in product design including solid modeling, mechanical assembly, parameterization, product data management and data exchange in CAD. Case studies and tutorial examples at the end of each chapter provide hands on practice in implementing off the shelf computer design tools. Provides two projects showing the use of Pro/ENGINEER and SolidWorks to implement concepts discussed in the book.

*SOLIDWORKS 2022 Basic Tools* Paul Tran, 2021-11 Starts at an introductory level designed for beginners. Comprehensive coverage of beginning tools and techniques. Uses a step by step tutorial approach with real world projects. Covers the creation of parts, assemblies and drawings. Features a quick reference guide and a Certified SOLIDWORKS Associate practice exam. The first book of a three book series. SOLIDWORKS 2022 Basic Tools is the first book in a three part series. It introduces new users to the SOLIDWORKS interface, SOLIDWORKS tools and basic modeling techniques. It provides you with a strong understanding of SOLIDWORKS and covers the creation of parts, assemblies and drawings. Every lesson and exercise in this book was created based on real world projects. Each of these projects has been broken down and developed into easy and comprehensible steps. Furthermore, at the end of every chapter, there are self test questionnaires to ensure that you have gained sufficient knowledge from each section before moving on to more advanced lessons. This book takes the approach that in order to understand SOLIDWORKS inside and out, you should create everything from the beginning and take it step by step. Who is this book for? This book is for the beginner who is not familiar with the SOLIDWORKS program and its add ins.

*SOLIDWORKS 2026 Tutorial* David Planchard, 2026-02 Uses step by step project based tutorials designed for beginning or intermediate users. Will prepare you for the Certified SOLIDWORKS Associate Exam. Includes a chapter introducing you to 3D printing. Features a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform. Get ready to take your 3D CAD skills to the next level with SOLIDWORKS 2026 Tutorial. Whether you're a student, designer, engineer, or professional who's new to SOLIDWORKS, this book is the ultimate guide to mastering SOLIDWORKS's impressive capabilities. And if you're preparing for the Certified SOLIDWORKS Associate Mechanical Design (CSWA) exam, you're in luck because this book has got you covered. Featuring a project based learning approach and step by step instructions, the first six chapters cover the User Interface, CommandManager, Document and System properties, and beyond, with exploration of everything from design intent and design tables to configurations, multi sheet drawings, BOMs, and Revision tables. Use basic and advanced features to

create simple and complex parts and assemblies And for the grand finale chapter 6 takes you through the creation of a robot assembly complete with all the assemblies and components you ll need Information and examples on the five categories in the CSWA exam are embedded throughout the book but chapters 7 10 specifically focus on preparation for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam which will confirm you have a foundation in and apprentice knowledge of 3D CAD and engineering principles And for those looking to explore the exciting world of additive manufacturing 3D printing chapter 11 presents the benefits of 3D printing how it differs from subtractive manufacturing and the terminology and technology used in low cost 3D printers With clear concise instructions and desired outcomes listed for each chapter of the tutorial you ll know exactly what you re working towards every step of the way Work between multiple documents features and commands like a pro Build multiple assemblies that combine over 100 extruded machined parts and components and develop the skills to create modify and edit sketches and solid features Plus you ll learn how to reuse features parts and assemblies through symmetry patterns copied components and more Start learning by doing and become a 3D CAD expert with SOLIDWORKS 2026 Tutorial Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform [SOLIDWORKS 2021 Tutorial](#) David Planchard,2020-12 SOLIDWORKS 2021 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive

manufacturing and its features You will also learn the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SOLIDWORKS in industry

**Product Performance Evaluation using CAD/CAE** Kuang-Hua Chang,2013-02-03 This is one book of a four part series which aims to integrate discussion of modern engineering design principles advanced design tools and industrial design practices throughout the design process Through this series the reader will Understand basic design principles and modern engineering design paradigms Understand CAD CAE CAM tools available for various design related tasks Understand how to put an integrated system together to conduct product design using the paradigms and tools Understand industrial practices in employing virtual engineering design and tools for product development Provides a comprehensive and thorough coverage on essential elements for product performance evaluation using the virtual engineering paradigms Covers CAD CAE in Structural Analysis using FEM Motion Analysis of Mechanical Systems Fatigue and Fracture Analysis Each chapter includes both analytical methods and computer aided design methods reflecting the use of modern computational tools in engineering design and practice A case study and tutorial example at the end of each chapter provide hands on practice in implementing off the shelf computer design tools Provides two projects at the end of the book showing the use of Pro ENGINEER and SolidWorks to implement concepts discussed in the book

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