

*Designing Parts with*

**SolidWorks**

*A fun and easy  
way to learn  
the hottest  
solid-modeling  
program for  
Microsoft Windows.®*

*Roy Wysack*

**CAD/CAM**  
PUBLISHING

# Designing Parts With Solid Works

**David Planchard**



## **Designing Parts With Solid Works:**

**Designing Parts with SolidWorks** Roy Wysack, Roy L. Wysack, 1998 Employing a highly graphical approach the author guides designers through the solid computer model creation process with an emphasis on avoiding costly errors

**Engineering Design with SOLIDWORKS 2020** David Planchard, 2019-12 A comprehensive introduction to SOLIDWORKS using tutorial style step by step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined plastic and sheet metal components Also covers Simulation Sustainability and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing Engineering Design with SOLIDWORKS 2020 is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user featuring machined plastic and sheet metal components Desired outcomes and usage competencies are listed for each project The book is divided into five sections with 11 projects Project 1 Project 6 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 Additional techniques include the edit and reuse of features parts and assemblies through symmetry patterns configurations SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox Project 7 Understand Top Down assembly modeling and Sheet Metal parts Develop components In Context with InPlace Mates along with the ability to import parts using the Top Down assembly method Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features Project 8 Project 9 Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam Apply design intent and intelligent modeling techniques in a sketch feature part plane assembly and drawing Project 10 Comprehend the differences between additive and subtractive manufacturing Understand 3D printer terminology along with a working knowledge of preparing saving and printing CAD models on a low cost printer Project 11 Review the Certified SOLIDWORKS Associate CSWA program Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model *Engineering Design with SOLIDWORKS 2019* David Planchard, 2019 Engineering Design with SOLIDWORKS 2019 is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user featuring machined plastic and sheet metal components Desired outcomes and usage

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suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks everyday Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2011

*Engineering Design with SOLIDWORKS 2023* David Planchard,2023-05-04 A comprehensive introduction to SOLIDWORKS using tutorial style step by step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined plastic and sheet metal components Also covers Simulation Sustainability and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing Engineering Design with SOLIDWORKS 2023 is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user featuring machined plastic and sheet metal components Desired outcomes and usage competencies are listed for each project The book is divided into five sections with 11 projects Project 1 Project 6 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 Additional techniques include the edit and reuse of features parts and assemblies through symmetry patterns configurations SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox Project 7 Understand Top Down assembly modeling and Sheet Metal parts Develop components In Context with InPlace Mates along with the ability to import parts using the Top Down assembly method Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features Project 8 Project 9 Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate Finite Element Analysis CSWA FEA exam Apply design intent and intelligent modeling techniques in a sketch feature part plane assembly and drawing Project 10 Comprehend the differences between additive and subtractive manufacturing Understand 3D printer terminology along with a working knowledge of preparing saving and printing CAD models on a low cost printer Project 11 Review the Certified SOLIDWORKS Associate CSWA program Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

*Learn SOLIDWORKS* Tayseer Almattar,2022-01-31 Get to grips with leading

3D engineering and product design application to design robust 3D models and achieve CSWA and CSWP certification with SOLIDWORKS Specialist Tayseer Almattar Key Features Gain comprehensive insights into the core aspects of 3D modeling s mechanical parts Learn how to generate assembly designs with both standard and advanced mates Discover design practices for both 2D as well as 3D modeling and prepare to achieve CSWP and CSWA certification Book Description SOLIDWORKS is the leading choice for 3D engineering and product design applications across industries such as aviation automobile and consumer product design This book helps you to get up and running with SOLIDWORKS and understand each new concept and tool with the help of easy to follow exercises You ll begin with the basics exploring the software interface and finding out how to work with drawing files The book then guides you through topics such as sketching building complex 3D models generating dynamic and static assemblies and generating 2D engineering drawings to prepare you to take on any design project You ll also work with practical exercises to get hands on experience with creating sketches 3D part models assemblies and drawings To reinforce your understanding of SOLIDWORKS the book is supplemented by downloadable files that will help you to understand the concepts and exercises more easily Finally you ll also work on projects for 3D modeling objects inspired by everyday life By the end of this SOLIDWORKS book you ll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and be able to prepare effectively for the Certified SOLIDWORKS Associate CSWA and Certified SOLIDWORKS Professional CSWP exams What you will learn Understand the fundamentals of SOLIDWORKS and parametric modeling Create professional 2D sketches as bases for 3D models using simple and advanced modeling techniques Use SOLIDWORKS drawing tools to generate standard engineering drawings Evaluate mass properties and materials for designing parts and assemblies Join different parts together to form static and dynamic assemblies Discover expert tips and tricks to generate different part and assembly configurations for your mechanical designs Who this book is for This book is for aspiring engineers designers makers draftsmen and hobbyists looking to get started with SOLIDWORKS and explore the software Individuals who are interested in becoming Certified SOLIDWORKS Associates CSWAs or Certified SOLIDWORKS Professionals CSWPs will also find this book useful No specific background is needed to follow the concepts in the book as it starts from the basics of SOLIDWORKS However basic theoretical knowledge of 3D modeling will be helpful to get the most out of this book *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

**Engineering Design with SOLIDWORKS 2016 and Video Instruction**

David Planchard, 2015-12 Engineering Design with SOLIDWORKS 2016 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal 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 Bills of Materials Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the

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combine machined plastic and sheet metal 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 Bills of Materials Custom Properties and Configurations Address various SOLIDWORKS analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SOLIDWORKS in industry Review individual features commands and tools with the video instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers He is directly involved with SOLIDWORKS every day His responsibilities go far beyond the creation of just a 3D model The book is designed to complement the SOLIDWORKS Tutorials contained in SOLIDWORKS 2017

**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 2024 Basic Tools** Paul Tran, 2024 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 2024 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 this book is for This book is for the beginner who is not familiar with the SOLIDWORKS program and its add ins **Learn SOLIDWORKS 2020** Tayseer Almattar,2019-12-02

Explore a practical and example driven approach to understanding SOLIDWORKS 2020 and achieving CSWA and CSWP certification Key FeaturesGain comprehensive insights into the core aspects of mechanical part modelingGet up to speed with generating assembly designs with both standard and advanced matesFocus on design practices for both 2D as well as 3D modeling and prepare to achieve CWSP and CWSA certificationBook Description SOLIDWORKS is the leading choice for 3D engineering and product design applications across industries such as aviation automobiles and consumer product design This book takes a practical approach to getting you up and running with SOLIDWORKS 2020 You ll start with the basics exploring the software interface and working with drawing files The book then guides you through topics such as sketching building complex 3D models generating dynamic and static assemblies and generating 2D engineering drawings to equip you for mechanical design projects You ll also do practical exercises to get hands on with creating sketches 3D part models assemblies and drawings To reinforce your understanding of SOLIDWORKS the book is supplemented by downloadable files that will help you follow up with the concepts and exercises found in the book By the end of this book you ll have gained the skills you need to create professional 3D mechanical models using SOLIDWORKS and you ll be able to prepare effectively for the Certified SOLIDWORKS Associate CSWA and Certified SOLIDWORKS Professional CSWP exams What you will learnUnderstand the fundamentals of SOLIDWORKS and parametric modelingCreate professional 2D sketches as bases for 3D models using simple and advanced modeling techniquesUse SOLIDWORKS drawing tools to generate standard engineering drawingsEvaluate mass properties and materials for designing parts and assembliesUnderstand the objectives and the formats of the CSWA and CSWP examsDiscover expert tips and tricks to generate different part and assembly configurations for your mechanical designsWho this book is for This book is for aspiring engineers designers drafting technicians or anyone looking to get started with the latest version of SOLIDWORKS Anyone interested in becoming a Certified SOLIDWORKS Associate CSWA or Certified SOLIDWORKS Professional CSWP will also find this book useful

*Computer-aided Engineering Design With Solidworks* Godfrey C Onwubolu,2013-03-26 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 a

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     **Engineering Design with SolidWorks 2001** Marie P. Planchard, David C. Planchard, 2002

*Introduction to SolidWorks* Godfrey C. Onwubolu, 2017-03-03 This senior undergraduate level textbook is written for Advanced Manufacturing Additive Manufacturing as well as CAD CAM courses Its goal is to assist students in colleges and universities designers engineers and professionals interested in using SolidWorks as the design and 3D printing tool for emerging manufacturing technology for practical applications This textbook will bring a new dimension to SolidWorks by introducing readers to the role of SolidWorks in the relatively new manufacturing paradigm shift known as 3D Printing which is based on Additive Manufacturing AM technology This new textbook Features modeling of complex parts and surfaces Provides a step by step tutorial type approach with pictures showing how to model using SolidWorks Offers a user Friendly approach for the design of parts assemblies and drawings motion analysis and FEA topics Includes clarification of connections between SolidWorks and 3D Printing based on Additive Manufacturing Discusses a clear presentation of Additive Manufacturing for Designers using SolidWorks CAD software Introduction to SolidWorks A Comprehensive Guide with Applications in 3D Printing is written using a hands on approach which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts assemble parts and produce drawings

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### **Designing Parts With Solid Works Introduction**

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