# SOLIDWORKS 2024 Tutorial

A Step-by-Step Project Based Approach Utilizing 3D Solid Modeling



David C. Planchard, CSWP, SOLIDWORKS Accredited Educator









# **2015 Solidworks Drawing Training Manual**

**Randy Shih** 

# **2015 Solidworks Drawing Training Manual:**

SolidWorks 2015 Tutorial with Video Instruction David Planchard, 2014-12 SolidWorks 2015 Tutorial with video instruction 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 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 Beginner's Guide to SolidWorks 2015 - Level I Alejandro Reyes, 2015-01-14 This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software s interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands SolidWorks 2015 Reference Guide David

Planchard, 2014-11-02 The SolidWorks 2015 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2015 SolidWorks is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2015 This book covers the following System and Document propertiesFeatureManagersPropertyManagersConfigurationManagersRenderManagers2D and 3D Sketch toolsSketch entities3D Feature toolsMotion StudySheet MetalMotion StudySolidWorks SimulationPhotoView 360Pack and Go3D PDFsIntelligent Modeling techniques3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2015 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature The book provides access to over 240 models their solutions and additional support materials Learn by doing not just by reading 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 configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2015 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SolidWorks every day and his responsibilities go far beyond the creation of just a 3D model **Engineering Graphics with SOLIDWORKS 2015** and Video Instruction David Planchard, 2015-01-14 Engineering Graphics with SOLIDWORKS 2015 and video instruction is written to assist the technical school two year college four year university instructor student or industry professional that is a beginner or intermediate SOLIDWORKS user The book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning SOLIDWORKS with video instructions Learn by doing not just by reading The book is divided into four sections Chapters 1 3 explore the history of engineering graphics manual sketching techniques orthographic projection Third vs First angle projection multi view drawings dimensioning practices ASME Y14 5 2009 standard line type fit type tolerance fasteners in general general thread notes and the history of CAD leading to the development of SOLIDWORKS Chapters 4 9 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 and Revision tables using basic and advanced features Follow the step

by step instructions in over 80 activities to develop eight parts four sub assemblies three drawings and six document templates Chapter 10 provides a section on the Certified Associate Mechanical Design CSWA program with sample exam questions and initial and final SOLIDWORKS models Chapter 11 provides a section on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Review individual features commands and tools using the video instruction and SOLIDWORKS Help The chapter exercises analyze and examine usage competencies based on the chapter objectives The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu Desired outcomes and usage competencies are listed for each project Know your objectives up front Follow the step by step procedures to achieve your design goals Work between multiple documents features commands and properties that represent how engineers and designers utilize SOLIDWORKS in industry 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 SolidWorks 2019 Training Guide Linkan Sagar, 2019-09-19 Designed to provide an insight into the Mechanical Design concept DESCRIPTION The book promises to make you understand and practice the SolidWorks framework The aim of this book is to take you on a journey to all the phases of SolidWorks SolidWorks is an innovative next generation industry software that allows you to solve and understand the designing and mechanical problems SolidWorks uses a technical implementation approach for sketching surfacing and sheet metal drafting in an incremental and easy way The main objective of this book is to make the reader understand the concepts of design based on practical knowledge rather than theoretical knowledge KEY FEATURES Each command is explained in a simple and understandable manner Step by step explanation Practical knowledge rather than theoretical knowledge Covers all the modules of SolidsWorks 2019 WHAT WILL YOU LEARN SolidWorks and its GUI Sketches Line Rectangle Slot Circle ARC Polygon and Spline Extrude Revolved Swept Loft Boundary Filt and Chamfer Surface Extruded Revolved Swept Lofted Boundary Filled and Planner Sheet metal Base flange tab Edge flange Miter flange and Hem Weldments Structural member Trim Extend End cap and Gusset Curves Mold design Drafting Assembly WHO THIS BOOK IS FOR Mechanical engineers and designers automobile engineers product designers heavy vehicle designers Table of Contents 1 Introduction and Overview 2 Sketch 3 Features 4 Surface 5 Sheet Metal 6 Weldments 7 Curves 8 Mold Design 9 Assembly 10 Drafting SOLIDWORKS 2015 in 5 Hours with Video Instruction David Planchard, 2015-02 OLIDWORKS 2015 in 5 Hours with video instruction introduces the new user to the basics of using SOLIDWORKS 3D CAD software in five easy lessons This book is intended for the student or designer that needs to learn SOLIDWORKS quickly and effectively for senior capstone machine design kinematics dynamics and other engineering and technology projects that use SOLIDWORKS as a tool Engineers in industry are expected to have SOLIDWORKS skills for their company s next project Students need to learn SOLIDWORKS without taking a formal CAD

course Based on years of teaching SOLIDWORKS to engineering students SOLIDWORKS 2015 in 5 Hours concentrates on the areas where the new user improves efficiency in the design modeling process By learning the correct SOLIDWORKS skills and file management techniques you gain the most knowledge in the shortest period of time You develop a mini Stirling Engine and investigate the proper design intent and constraints The mini Stirling Engine is based on the external combustion closed cycle engine of Scottish inventor Robert Stirling In addition to 3D modeling the engine can be used to teach and connect many engineering and physics principles You begin with an overview of SolidWorks and the User Interface UI its menus toolbars and commands With a quick pace you learn the essentials of 2D sketching part and assembly creation preform motion study develop detailed part and assembly drawings and much more View the provided videos for each section of the book to enhance your experience SOLIDWORKS Interface2D Sketching Sketch Planes and Sketch tools3D Features and Design IntentCreating an AssemblyFundamentals in Drawings Part 1Fundamentals in Drawings Part 2 2015 Part I - Basic Tools Paul Tran, 2014-12-12 SolidWorks 2015 Part I Basic Tools introduces new users to the SolidWorks interface SolidWorks tools and basic modeling techniques It provides readers 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 have been broken down and developed into easy and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has 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 the reader 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

SOLIDWORKS 2015 and Engineering Graphics Randy Shih,2015 SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2015 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2015 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of fifteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics

language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2015 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering **Engineering Design with SolidWorks 2015 and Video Instruction** David Planchard, 2014-11-28 Engineering Design with SolidWorks 2015 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 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 The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2015 View the provided videos in the book to enhance the user experience SolidWorks Interface2D Sketching Sketch Planes and Sketch tools3D Features and Design IntentCreating an AssemblyFundamentals in Drawings Part 1 Part 2 Learning **SolidWorks 2015** Randy Shih, 2015-02-09 This book will teach you everything you need to know to start using SolidWorks 2015 with easy to understand step by step tutorials This book features a simple robot design used as a project throughout the book You will learn to model parts create assemblies run simulations and even create animations of your robot design No previous experience with Computer Aided Design CAD is needed since this book starts at an introductory level The author begins by getting you familiar with the SolidWorks interface and its basic tools right away You will start by learning to model

simple robot parts and before long you will graduate to creating more complex parts and multi view drawings Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships You will also become familiar with many of SolidWorks s powerful tools and commands that enable you to easily construct complex features in your models Also included is coverage of gears gear trains and spur gear creation using SolidWorks This book continues by examining the different mechanisms commonly used in walking robots You will learn the basic types of planar four bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages Using the knowledge you gained about linkages and mechanism you will learn how to modify your robot and change its behavior by modifying or creating new parts In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis You will finish off your project by creating 3D animations of your robot in action There are many books that show you how to perform individual tasks with SolidWorks but this book takes you through an entire project and shows you the complete engineering process By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA Mechanical Tiger and can start building your own robot

The Enigmatic Realm of 2015 Solidworks Drawing Training Manual: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **2015 Solidworks Drawing Training Manual** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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