

# SOLIDWORKS

## FOR BEGINNERS



*3D* SOLIDWORKS



ARSATH NATHEEM S

# Solidworks Learning Guide

**Randy Shih**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Solidworks Learning Guide:**

**Commands Guide Tutorial for Solidworks 2010** David C. Planchard, Marie P. Planchard, 2010 The Commands Guide Tutorial for SolidWorks 2010 is a comprehensive reference book written to assist beginner to intermediate users of SolidWorks SolidWorks is an immense software package and no one book can cover all topics for all users The book provides a centralized reference location to address many of the System and Document properties FeatureManagers PropertyManagers ConfigurationManagers and RenderManagers along with 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study SustainabilityXpress DFMXpress SimulationXpress Sheet Metal PhotoView 360 and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2010 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 17 total 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 All models for the 230 plus tutorials are located on the enclosed CD with their solution initial and final 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 2010 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The authors developed the tutorials 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

**SOLIDWORKS 2024: A Power Guide for Beginners and Intermediate Users** Sandeep Dogra, SOLIDWORKS 2024 A Power Guide for Beginners and Intermediate Users textbook is designed for both instructor led courses and self paced learning It is intended to help engineers and designers interested in learning SOLIDWORKS for creating 3D mechanical designs This is a valuable resource for new SOLIDWORKS users and a great teaching tool for classroom training With 14 chapters and a total of 780 pages the content extensively covers key SOLIDWORKS environments such as Sketching Part Modeling Assembly and Drawing This textbook teaches users to use SOLIDWORKS mechanical design software for creating parametric 3D solid components assemblies and 2D drawings Additionally a dedicated chapter is included to guide users in creating multiple configurations of a design This textbook not only focuses on the usage of the tools and commands of SOLIDWORKS but also the concept of design Every chapter in this textbook contains tutorials that provide users with step by step instructions for creating mechanical designs and drawings with ease Additionally every

chapter ends with practical hands on test drives that allow users to experience the user friendly and powerful technical capabilities of SOLIDWORKS

**Learning SOLIDWORKS 2025** Randy Shih, Teaches beginners how to use SOLIDWORKS with easy to understand tutorials Features a simple robot design used as a project throughout the book Covers modeling gear creation linkage analysis assemblies simulations and 3D animation Available with an optional robot kit Includes a chapter introducing you to 3D printing This book will teach you everything you need to know to start using SOLIDWORKS 2025 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 mechanisms you will learn how to modify your robot and change its behavior by modifying or creating new parts In the second to last 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 Finally in the last chapter the author introduces you to 3D printing You will learn the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model Being able to turn your designs into physical objects will open up a whole new world of possibilities to you 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

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**Learning SOLIDWORKS 2021** Shih, Randy, 2021 This book will teach you everything you need to know to start using SOLIDWORKS 2021 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 mechanisms, you will learn how to modify your robot and change its behavior by modifying or creating new parts. In the second to last 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. Finally, in the last chapter, the author introduces you to 3D printing. You will learn the general principles of 3D printing, including a brief history of 3D printing, the types of 3D printing technologies commonly used (filaments and the basic procedure for printing a 3D model). Being able to turn your designs into physical objects will open up a whole new world of possibilities to you. 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.

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Alejandro Reyes, 2024-02 Designed to teach new users the basic concepts of SOLIDWORKS and good solid modeling techniques Uses a task oriented approach to learning SOLIDWORKS Focuses on the processes to complete the modeling of a part instead of individual commands Includes access to extensive video instruction Covers commands found on the CSWA exam and includes a practice test 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 Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam 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 Includes Video Instruction Each copy of this book includes access to video instruction In these videos the author provides a clear presentation of tutorials found in the book The videos reinforce the steps described in the book by allowing you to watch the exact steps the author uses to complete the exercises while he provides additional details along the way Captioned versions of these videos are also available for customers who want or need video captions

**Learning SOLIDWORKS 2023** Randy Shih, 2023 Teaches beginners how to use SOLIDWORKS with easy to understand tutorials Features a simple robot design used as a project throughout the book Covers modeling gear creation linkage analysis assemblies simulations and 3D animation Available with an optional robot kit Includes a chapter introducing you to 3D printing This book will teach you everything you need to know to start using SOLIDWORKS 2023 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 mechanisms you will learn how to modify your robot and change its behavior by modifying or creating new parts In the second to last 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 Finally in the last chapter the author introduces you to 3D printing You will learn the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model Being able to turn your designs into physical objects will open up a whole new world of possibilities to you 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

**Learning SOLIDWORKS 2020** Randy Shih, 2020-02 This book will teach you everything you need to know to start using SOLIDWORKS 2020 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

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Randy Shih,2024-05-27 Teaches beginners how to use SOLIDWORKS with easy to understand tutorials Features a simple robot design used as a project throughout the book Covers modeling gear creation linkage analysis assemblies simulations and 3D animation Available with an optional robot kit Includes a chapter introducing you to 3D printing This book will teach you everything you need to know to start using SOLIDWORKS 2024 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 mechanisms you will learn how to modify your robot and change its behavior by modifying or creating new parts In the second to last chapter of this book you learn how to combine all the robot



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SolidWorks For Dummies Greg Jankowski,Richard Doyle,2011-02-09 Whether it s your first venture into 3D technical drawing software or you re switching to SolidWorks from something else you re probably excited about what this CAD program has to offer Chances are you figure it s going to take awhile to get the hang of it before you can begin cranking out those perfectly precise 3D designs SolidWorks For Dummies 2nd Edition can help you dramatically shorten that get acquainted period SolidWorks For Dummies 2nd Edition will help you get up and running quickly on the leading 3D technical drawing software You ll see how to set up SolidWorks to create the type of drawings your industry requires and how to take full advantage of its legendary 3D features You ll discover how to Work with virtual prototypes Understand the user interface Use templates and sketch assemble and create drawings Automate the drawing process Review drawings and collaborate with other team members Define and edit sketches Create dimensions and annotations Print or plot your drawings Leverage existing designs Sample files on the bonus CD ROM show you how to apply the latest version of SolidWorks and accomplish specific tasks Even if you re brand new to CAD software SolidWorks For Dummies 2nd Edition will have you feeling like a pro in no time You ll find you ve entered a whole new dimension Note CD ROM DVD and other supplementary materials are not included as part of eBook file

**Mastercam X2 with SolidWorks Training Guide Mill 2D** Matthew Manton,Duane Weidinger,2007

**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

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*Learning SOLIDWORKS 2018: A Project Based Approach* Prof. Sham Tickoo, 2018-08-27 This book introduces the readers to SOLIDWORKS 2018 the world s leading parametric solid modeling package In this book the author has adopted a project based approach to explain the fundamental concepts of SOLIDWORKS This unique approach has been used to explain the creation of parts assemblies and drawings of a real world model The book will provide the users a sound and practical knowledge of the software while creating a motor cycle as the real world model This knowledge will guide the users to create their own projects in an easy and effective manner Keeping in view the requirement of the users a single project has been divided into many chapters to make the users understand the concepts in a better way The creation of each part assembly and drawing has been explained using small steps which make the learning process quite simple and effective Additionally the tools introduced for the first time have been dealt with in detail so that you can gain expertise and proficiency in SOLIDWORKS After reading the book the user will be able to create parts assemblies drawing views with bill of materials and also learn the techniques that are essential for designing multiple models of similar geometry with ease

**Salient Features** Project based book consisting of 12 chapters that are organized in a pedagogical sequence Explanation of tools Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Step by step instructions to guide the users through the learning process Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge Additional learning resources at [allaboutcadcam.blogspot.com](http://allaboutcadcam.blogspot.com) Table of Contents Chapter 1 Introduction to SOLIDWORKS 2018 Chapter 2 Creating Axle and Disc Plate Chapter 3 Creating Rim and Tire Chapter 4 Creating Caliper Piston Pad and Body Chapter 5 Creating Fork Tube Cap Holder and Bodies Chapter 6 Creating Handlebar

and Handle Holders Chapter 7 Creating Muffler and Swing Arm Chapter 8 Creating Shock Absorber and Engine Parts Chapter 9 Creating Mudguards Fuel Tank Headlight Mask and Seat Cover Chapter 10 Weldment Structural Frames Chapter 11 Creating Motor Cycle Assembly Chapter 12 Generating Drawing Views Index Free Teaching and Learning Resources CADCIM Technologies provides the following free teaching and learning resources with this textbook Technical support by contacting techsupport cadcim com Part files used in exercises and illustrations Instructor Guide with solution to all review questions and instructions to create the models for exercises Additional learning resources at allaboutcadcam blogspot com and youtube com cadcimtech

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**Beginner's Guide to SOLIDWORKS 2018 - Level I** Alejandro Reyes, 2017-10 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 and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website 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 Includes Video Instruction Each copy of this book includes access to video instruction In these videos the author provides a visual presentation of tutorials found in the book The videos reinforce the steps described in the book by allowing you to watch the exact steps the author uses to complete the exercises

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**Learning SOLIDWORKS 2017** Randy Shih,2017-03  
This book will teach you everything you need to know to start using SOLIDWORKS 2017 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 second to last 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 Finally in the last chapter the author introduces you to 3D printing You will learn the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model Being able to turn your designs into physical objects will open up a whole new world of possibilities to you 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

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