



TRAINING
SOLIDWORKS® 2014

SolidWorks Simulation Professional



Solidworks 2014 Training Manual

Randy Shih



Solidworks 2014 Training Manual:

SolidWorks 2014 Black Book Matt, 2014-03-19 The SolidWorks 2014 Black Book is written to help professionals as well as learners in creating some of the most complex solid models. The book follows a step by step methodology. This book is more concentrated on making you able to use tools at right places in place of tell you just the tools. The book covers almost all the information required by a learner to master the SolidWorks. The book starts with sketching and ends at advanced topics like mold design and sheetmetal. Some of the salient features of this book are In Depth explanation of concepts. Every new topic of this book starts with the explanation of the basic concepts. In this way the user becomes capable of relating the things with real world. Topics Covered Every chapter starts with a list of topics being covered in that chapter. In this way the user can easily find the topic of his/her interest easily. Instruction through illustration. The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively. There are about 800 illustrations that make the learning process effective. Tutorial point of view. At the end of concept's explanation the tutorial makes the understanding of users firm and long lasting. Almost each chapter of the book has tutorials that are real world projects. Project Free projects and exercises are provided to students for practicing. For Faculty If you are a faculty member then you can ask for video tutorials on any of the topic exercise tutorial or concept. Formatting Conventions Used in the Text All the key terms like name of button tool drop down etc are kept bold. Free Resources Link to the resources used in this book are provided to the users via email. To get the resources mail us at cadcamcaeworks@gmail.com with your contact information. With your contact record with us you will be provided latest updates and informations regarding various technologies. The format to write us mail for resources is as follows Subject of E mail as Application for resources of _____book. Also given your information like Name Course pursuing Profession Contact Address E mail ID. For Any query or suggestion If you have any query or suggestion please let us know by mailing us on cadcamcaeworks@gmail.com. Your valuable constructive suggestions will be incorporated in our books and your name will be addressed in special thanks area of our books.

Learning SolidWorks 2014 Randy Shih, 2013-12-01 This book will teach you everything you need to know to start using SolidWorks 2014 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 Drafting 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

Beginner's Guide to SolidWorks 2014 - Level I Alejandro Reyes,2014-02-26 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 the user completes 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 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 2014 Part I - Basic Tools Paul Tran,2013-12 SolidWorks 2014 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 **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 2014 Part II - Advanced Techniques** Paul Tran,2013-12 SolidWorks 2014 Part II Advanced Techniques picks up where SolidWorks 2014 Part I Basic Tools leaves off Its aim is to take you from an intermediate user with a basic understanding of SolidWorks and modeling techniques to an advanced user capable of creating complex models and able to use the advanced tools provided by SolidWorks The text covers parts surfaces

SimulationXpress sheet metal top down assemblies and core and cavity molds 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

Parametric Modeling with SolidWorks 2014 Paul Schilling,Randy Shih,2014 Parametric Modeling with SolidWorks 2014 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2014 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2014 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SolidWorks 2014 including how to use the SolidWorks Design Library basic motion analysis collision detection and analysis with SimulationXpress 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

SolidWorks 2014 and Engineering Graphics - An Integrated Approach Randy Shih,2013-12-19 SolidWorks 2014 and Engineering Graphics An Integrated Approach combines an introduction to SolidWorks 2014 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 2014 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SolidWorks 2014 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 graphic language used in all branches of technical industry This book does not attempt to cover all of SolidWorks 2014 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

Beginner's Guide to SolidWorks 2014 - Level II Alejandro Reyes, 2014-02-26 Beginner's Guide to SolidWorks 2014

Level II starts where Beginner's Guide Level I ends following the same easy to read style and companion video instruction but this time covering advanced topics and techniques The purpose of this book is to teach advanced techniques including sheet metal surfacing how to create components in the context of an assembly and reference other components Top down design propagate design changes with SolidWorks parametric capabilities mold design welded structures and more while explaining the basic concepts of each trade to allow you to understand the how and why of each operation The author uses simple examples to allow you to better understand each command and environment as well as to make it easier to explain the purpose of each step maximizing the learning time by focusing on one task at a time This book is focused 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 At the end of this book you will have acquired enough skills to be highly competitive when it comes to designing with SolidWorks and while there are many less frequently used commands and options available that will not be covered in this book rest assured that those covered are most of the commands used every day by SolidWorks designers The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website and some as well as several more

Engineering Graphics with SolidWorks 2014 and Video Instruction

David Planchard, 2013 Engineering Graphics with SolidWorks 2014 and video instruction is written to assist 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 two parts Engineering Graphics and SolidWorks 3D CAD software In Chapter 1 through Chapter 3 you 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 In Chapter 4 through Chapter 8 you apply engineering graphics fundamentals and learn the SolidWorks User Interface Document and System properties simple parts simple and complex assemblies design tables configurations multi sheet multi view drawings Bill of Materials Revision tables 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 Formulate the skills to create and modify solid features to model a FLASHLIGHT assembly Chapter 9 provides a bonus section on the Certified Associate Mechanical Design CSWA program with sample exam questions and initial and final SolidWorks models Passing the CSWA exam proves to employers that you have the necessary fundamental engineering graphics and SolidWorks competencies Review individual features commands and tools for each project using the video instruction and SolidWorks Help The chapter exercises analyze and examine usage

competencies based on the project 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 2014 Design Bible-II Kris,2013-12-10 The SolidWorks 2014 Design Bible II is written to help professionals as well as learners in creating Assemblies and then creating drafting from assemblies as well as models The book covers almost all the information required by a learner to master the SolidWorks 2014 It covers basic as well as advanced topics like Assembly mates Mechanical mates Advanced mates surface modeling Drawing view and related operations Sheetmetal Motion Study and so on Some of the salient features of this book are In Depth explanation of concepts Every new topic of this book starts with the explanation of the basic concepts In this way the user becomes capable of relating the things with real world Topics Covered Every chapter starts with a list of topics being covered in that chapter In this way the user can easily find the topic of his/her interest easily Instruction through illustration The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively There are about 1200 illustrations that make the learning process effective Tutorial point of view At the end of concept's explanation the tutorial makes the understanding of users firm and long lasting Almost each chapter of the book has tutorials that are real world projects Project The projects are provided to the customers who mail us and give their feedback on the book at technishia@gmail.com Free Resources Link to the resources used in this book are provided to the users via email To get the resources mail us at technishia@gmail.com with your contact information With your contact record with us you will be provided latest updates and informations regarding various technologies The format to write us mail for resources is as follows Subject of E mail as Application for resources of _____ book Name Name of book purchased Course pursuing Profession Contact Address E mail ID For Any query or suggestion If you have any query or suggestion please let us know by mailing us on technishia@gmail.com Your valuable constructive suggestions will be incorporated in our books and your name will be addressed in special thanks area of our books

Official Certified SolidWorks Professional (CSWP) Certification Guide with Video Instruction David Planchard,2014-04-28 This book along with the companion disc that accompanies it will provide you with a wealth of information about the three segments of the CSWP CORE exam The intended audience for this book is a person who has passed the CSWA exam and who has eight or more months of SolidWorks training and usage This guide is not intended to teach you how to use SolidWorks but is written to provide you with CSWP exam tips hints and information on sample questions and categories that are aligned with the exam This guide is

written to help you take and pass the CSWP exam This book comes with a companion disc containing segment videos for you to follow while you use the book Each segment video provides valuable information tips and tricks to successfully pass the CSWP CORE exam SolidWorks model files in both their initial and final state are provided on this disc for SolidWorks 2012 2013 and 2014 The book is organized into three chapters Each chapter is focused on a segment of the CSWP CORE exam

This is not intended to be a step by step book **Introduction to Finite Element Analysis Using SolidWorks**

Simulation 2014 Randy Shih,2014 The primary goal of Introduction to Finite Element Analysis Using SolidWorks Simulation 2014 is to introduce the aspects of Finite Element Analysis FEA that are important to engineers and designers Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation The primary emphasis of the text is placed on the practical concepts and procedures needed to use SolidWorks Simulation in performing Linear Static Stress Analysis and basic Modal Analysis This text covers SolidWorks Simulation and the lessons proceed in a pedagogical fashion to guide you from constructing basic truss elements to generating three dimensional solid elements from solid models This text takes a hands on exercise intensive approach to all the important FEA techniques and concepts This textbook contains a series of thirteen tutorial style lessons designed to introduce beginning FEA users to SolidWorks Simulation The basic premise of this book is that the more designs you create using SolidWorks Simulation the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons **Drawing and**

Detailing with SolidWorks 2014 David Planchard,2014 Drawing and Detailing with SolidWorks 2014 is written to educate and assist students designers engineers and professionals in the drawing and detailing tools of SolidWorks Explore the learning process through a series of design situations industry scenarios projects and objectives target towards the beginning to intermediate SolidWorks user Work through numerous activities to create multiple view multiple sheet detailed drawings and assembly drawings Develop Drawing templates Sheet formats and Custom Properties Construct drawings that incorporate part configurations assembly configurations and design tables with equations Manipulate annotations in parts drawings assemblies Revision tables Bills of Materials and more Apply your drawing and detailing knowledge to over thirty exercises The exercises test your usage competency as well as explore additional topics with industry examples Advanced exercises require the ability to create parts and assemblies Engineering Analysis with SolidWorks Simulation 2014 Paul

Kurowski,2014 Engineering Analysis with SolidWorks Simulation 2014 goes beyond the standard software manual Its unique approach concurrently introduces you to the SolidWorks Simulation 2014 software and the fundamentals of Finite Element Analysis FEA through hands on exercises A number of projects are presented using commonly used parts to illustrate the analysis features of SolidWorks Simulation Each chapter is designed to build on the skills experiences and understanding gained from the previous chapters Topics covered Linear static analysis of parts and assemblies Contact stress analysis Frequency modal analysis Buckling analysis Thermal analysis Drop test analysis Nonlinear analysis Dynamic analysis

Random vibration analysis h and p adaptive solution methods Modeling techniques Implementation of FEA in the design process Management of FEA projects FEA terminology

Vibration Analysis with SolidWorks Simulation 2014 Paul Kurowski, 2014-08-05 Vibration Analysis with SolidWorks Simulation 2014 goes beyond the standard software manual It concurrently introduces the reader to vibration analysis and its implementation in SolidWorks Simulation using hands on exercises A number of projects are presented to illustrate vibration analysis and related topics Each chapter is designed to build on the skills and understanding gained from previous exercises Vibration Analysis with SolidWorks Simulation 2014 is designed for users who are already familiar with the basics of Finite Element Analysis FEA using SolidWorks Simulation or who have completed the book Engineering Analysis with SolidWorks Simulation 2014 Vibration Analysis with SolidWorks Simulation 2014 builds on these topics in the area of vibration analysis Some understanding of structural analysis and solid mechanics is recommended

Thermal Analysis with SolidWorks Simulation 2014 Paul Kurowski, 2014 Thermal Analysis with SolidWorks Simulation 2014 goes beyond the standard software manual It concurrently introduces the reader to thermal analysis and its implementation in SolidWorks Simulation using hands on exercises A number of projects are presented to illustrate thermal analysis and related topics Each chapter is designed to build on the skills and understanding gained from previous exercises Thermal Analysis with SolidWorks Simulation 2014 is designed for users who are already familiar with the basics of Finite Element Analysis FEA using SolidWorks Simulation or who have completed the book Engineering Analysis with SolidWorks Simulation 2014 Thermal Analysis with SolidWorks Simulation 2014 builds on these topics in the area of thermal analysis Some understanding of FEA and SolidWorks Simulation is assumed

SolidWorks 2020 Black Book (Colored) Gaurav Verma, Matt Weber, 2019-11-19 The SolidWorks 2020 Black Book is the 7th edition of our series on SolidWorks With lots of additions and thorough review we present a book to help professionals as well as learners in creating some of the most complex solid models The book follows a step by step methodology In this book we have tried to give real world examples with real challenges in designing We have tried to reduce the gap between university use of SolidWorks and industrial use of SolidWorks In this edition of book we have included many new features of SolidWorks like Sketch Ink Silhouette Entities 3D Textures Mesh Modeling DriveWorksXpress Markup SolidWorks Inspection and so on New practice questions have been added in this edition The book covers almost all the information required by a learner to master the SolidWorks The book starts with sketching and ends at advanced topics like Mold Design Sheetmetal Weldment SolidWorks CAM Rendering and MBD In Depth explanation of concepts Every new topic of this book starts with the explanation of the basic concepts In this way the user becomes capable of relating the things with real world Topics Covered Every chapter starts with a list of topics being covered in that chapter In this way the user can easy find the topic of his her interest easily Instruction through illustration The instructions to perform any action are provided by maximum number of illustrations so that the user can perform the actions discussed in the book easily and effectively There are about 1350 illustrations that

make the learning process effective Tutorial point of view At the end of concept s explanation the tutorial make the understanding of users firm and long lasting Almost each chapter of the book has tutorials that are real world projects Moreover most of the tools in this book are discussed in the form of tutorials Project Free projects and exercises are provided to students for practicing For Faculty If you are a faculty member then you can ask for video tutorials on any of the topic exercise tutorial or concept New Addition If anything is added in this edition but is not available in the previous editions then it is displayed with New symbol in table of content

Official Certified SOLIDWORKS Professional Certification Guide (SOLIDWORKS 2015 - 2017) David Planchard,2017-05 This book will provide you with a wealth of information about the three segments of the CSWP CORE exam The intended audience for this book is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage This guide is not intended to teach you how to use SOLIDWORKS but is written to provide you with CSWP exam tips hints and information on sample questions and categories that are aligned with the exam This guide is written to help you take and pass the CSWP exam The book is organized into three chapters Each chapter is focused on a segment of the CSWP CORE exam This is not intended to be a step by step book Goals of this book The primary goal is not only to help you pass the CSWP CORE exam but also to ensure that you understand and comprehend the concepts and implementation details of the process The second goal is to provide the most comprehensive coverage of CSWP CORE exam related topics available without too much coverage of topics not on the exam The third and ultimate goal is to get you from where you are today to the point that you can confidently pass all three segments of the CSWP CORE exam Who this book is for The intended audience for this book and the CSWP exam is a person who has passed the CSWA exam and who has eight or more months of SOLIDWORKS training and usage However passing the CSWA exam is not a prerequisite for taking the CSWP exam if you are a commercial user in industry For students that take the CSWP exam through their school you must first pass the CSWA exam

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