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Solidworks 2013 Drawing Training Manual

**Ronald E. Barr, Thomas J. Krueger, D.
Juricic**



Solidworks 2013 Drawing Training Manual:

Engineering Graphics with SolidWorks 2013 and Video Instruction David Planchard, Marie Planchard, 2013-02-18
Engineering Graphics with SolidWorks 2013 and Video Instruction DVD 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 the enclosed 1 5 hour Video Instruction DVD 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 isometric projection multi view drawings dimensioning practices 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 70 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 3D FLASHLIGHT assembly Chapter 9 provides a bonus section on the Certified SolidWorks Associate 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 with the book s 1 5 hour Video Instruction DVD 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 Each section explores the SolidWorks Online User s Guide to build your working knowledge of SolidWorks 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 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 every day Their responsibilities go far beyond the creation of just a 3D model

Solidworks 2013 Bible Matt Lombard, 2013-02-15 A comprehensive resource packed with information for both beginners and advanced users SolidWorks is the leading 3D solid modeling software used in computer aided design It s powerful but not simple This complete guide introduces beginners to the software but then goes far beyond covering numerous details that advanced users have requested Beginners will learn not only how the software works but why while more experienced users will learn all about search criteria Pack and Go other file management concepts and much more A valuable companion website contains before

and after real world parts and assemblies along with many example files used in the text. Additionally, the text of the book is augmented by video tutorials with author voice over which can be found on the website. SolidWorks is the leading 3D CAD program and previous editions of this book have sold more than 33 000 copies. Covers necessary information to give beginners a solid foundation in the software including part and assembly modeling and 2D drawing techniques. Addresses a wide range of advanced topics not treated in other books including best practices, search criteria, Pack and Go, and other file management concepts. Includes tutorials on both beginning and advanced topics with videos, sample part assembly and drawing files, and before and after example files available on the companion website. SolidWorks 2013 Bible is the ultimate resource on SolidWorks 2013; the book beginners can start with and advanced users will want to keep close at hand.

Beginner's Guide to Solidworks 2013 Alejandro Reyes, 2013-03-05. This book is intended to help new users to learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide. It will be 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.

Commands Guide Tutorial for SolidWorks 2013 David C. Planchard, Marie P. Planchard, 2012-12-27. The Commands Guide Tutorial for SolidWorks 2013 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2013. 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 2013. This book covers the following: System and Document properties, FeatureManagers, PropertyManagers, ConfigurationManagers, RenderManagers, 2D and 3D Sketch tools, Sketch entities, 3D Feature tools, Motion Study, Sheet Metal, Motion Study, Sustainability, Sustainability Xpress, FlowXpress, PhotoView 360, Pack and Go, Intelligent Modeling techniques, and more. Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2013 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 18 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 240 plus tutorials are located on the enclosed book 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 design to compliment the Online Tutorials and Online Help contained in SolidWorks 2013 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 professors vendors and manufacturers These professionals are directly involved with SolidWorks everyday 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 Fillet 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 2013 Part I - Basic Tools Paul Tran,2013 SolidWorks 2013 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

Learning SolidWorks 2013 Randy H. Shih, 2012-11-30 This book will teach you everything you need to know to start using SolidWorks 2013 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

Parametric Modeling with SolidWorks 2013 Randy Shih, Paul Schilling, 2013-02-20 Parametric Modeling with SolidWorks 2013 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2013 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2013 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 2013 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

Beginner's Guide to Solidworks 2013 Alejandro Reyes (Electrical Engineer), 2013-03-18 Beginner s Guide to

SolidWorks 2013 Level II starts where Beginner's Guide Level I ends following the same easy to read style 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

Solidworks 2013 and Engineering Graphics Randy Shih, 2013-04-27

SolidWorks 2013 and Engineering Graphics An Integrated Approach combines an introduction to SolidWorks 2013 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 2013 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SolidWorks 2013 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 2013'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

SolidWorks 2013 Part II - Advanced Techniques Paul Tran, 2013 SolidWorks 2013 Part II Advanced Techniques picks up where SolidWorks 2013 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 *Engineering Design with SolidWorks 2013 and Video Instruction* David C. Planchard, Marie P. Planchard, 2013 Engineering Design with SolidWorks 2013 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 SimulationXpress Sustainability SustainabilityXpress and DFMXpress and Intelligent Modeling techniques 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 Project 1 8 to achieve the design goals 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 enclosed Video Instruction DVD 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 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 every day Their responsibilities go far beyond the creation of just a 3D model The book is design to compliment the SolidWorks Tutorials contained in SolidWorks 2013 There are over 2 5 hours of video instructions on the enclosed DVD *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

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 & Computer Graphics Workbook Using Solidworks 2013 Ronald E. Barr, Thomas J. Krueger, D. Juricic, 2013 Engineering Computer Graphics Workbook Using SolidWorks 2013 is an exercise based workbook that uses step by step tutorials to cover the fundamentals of SolidWorks 2013 The intended audience is college

undergraduate engineering majors but it could also be used in pre college introductory engineering courses or by self learners The text follows an educational paradigm that was researched and developed by the authors over many years The paradigm is based on the concurrent engineering approach to engineering design in which the 3 D solid model data serves as the central hub for all aspects of the design process The workbook systematically instructs the students to develop 3 D models using the rich tools afforded in SolidWorks The exercises then proceed to instruct the students on applications of the solid model to design analysis using finite elements to assembly modeling and checking to kinematic simulation to rapid prototyping and finally to projecting an engineering drawing The workbook is ideally suited for courses in which a reverse engineering design project is assigned This book contains clear and easy to understand instructions that enable the students to robustly learn the main features of SolidWorks with little or no instructor input

Automating Solidworks 2013 Using Macros Mike Spens, 2013-07-17 Automating SolidWorks 2013 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SolidWorks and SolidWorks Workgroup PDM The focus of this book is primarily on the Visual Studio Tools for Applications VSTA macro interface It covers many of the major API functions through practical use cases It teaches many Visual Basic NET fundamentals as well as SolidWorks SolidWorks Workgroup PDM and Excel API functions The Author has also added a chapter dedicated to some of his favorite source code for you to use as the basis for typical automation procedures What you ll learn Record macros Control Custom Properties Create parts and features Build assemblies Batch create drawings Extract information from Workgroup PDM Create many other time saving utilities

SolidWorks 2013 Tutorial David C. Planchard, Marie P. Planchard, 2013 SolidWorks 2013 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 an enclosed 1 5 hour video instruction DVD SolidWorks model files and preparation for the CSWA exam The book is divided into two sections Chapters 1 7 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features along with Intelligent Modeling Techniques SustainabilityXpress SimulationXpress and DFMXpress Chapters 8 11 prepare you for the new Certified SolidWorks Associate Exam CSWA The CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple

documents features commands custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry Computing, Control, Information and Education Engineering Hsiang-Chuan Liu, Wen-Pei Sung, Wenli Yao, 2015-08-18 This proceedings set contains selected Computer Information and Education Technology related papers from the 2015 International Conference on Computer Intelligent Computing and Education Technology CICET 2015 to be held April 11 12 2015 in Guilin P R China The proceedings aims to provide a platform for researchers engineers and academics **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

SolidWorks 2012 Part I - Basic Tools Paul Tran, 2013-03 SolidWorks 2012 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

Whispering the Secrets of Language: An Psychological Journey through **Solidworks 2013 Drawing Training Manual**

In a digitally-driven world wherever monitors reign great and quick transmission drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases frequently move unheard. Yet, set within the pages of **Solidworks 2013 Drawing Training Manual** a interesting literary value pulsating with natural emotions, lies an extraordinary quest waiting to be undertaken. Composed by a talented wordsmith, that marvelous opus invites readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the material of each word. Within the psychological depths with this moving review, we will embark upon a heartfelt exploration of the book is key styles, dissect its fascinating publishing model, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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Solidworks 2013 Drawing Training Manual Introduction

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