

Commands Guide Tutorial for SolidWorks® 2012

A comprehensive reference guide with
over 240 tutorials

David C. Planchard CSWP

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Commands Guide Tutorial For Solidworks 2012

Randy Shih



Commands Guide Tutorial For Solidworks 2012:

Commands Guide Tutorial for SolidWorks 2012 David C. Planchard, Marie P. Planchard, 2011-12-18 The Commands Guide Tutorial for SolidWorks 2012 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2012. 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 tools, features, and techniques of SolidWorks 2012. 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 2012 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 detail, 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 designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2012. 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 2012 Tutorial* David C. Planchard, Marie P. Planchard, 2012. SolidWorks 2012 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 **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 **Engineering Graphics with SolidWorks 2012** David Planchard,Marie Planchard,2012-03-12 Engineering Graphics with SolidWorks 2012 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 compliment 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 everyday Their responsibilities go far beyond the creation of just a 3D model

Assembly Modeling with SolidWorks 2012 David C. Planchard, Marie P. Planchard, 2012-06-25 Assembly Modeling with SolidWorks 2012 is written to assist the beginning SolidWorks user with a few months of design experience to the intermediate SolidWorks user who desires to enhance their skill sets in assembly modeling The book provides a solid foundation in assembly modeling using competency based projects In step by step instructions the book provides examples to Start a SolidWorks session and to understand the following interfaces Menu bar toolbar Menu bar menu Drop down menus Context toolbars Consolidated drop down toolbars System feedback icons Confirmation Corner Heads up View toolbar CommandManager and more Set System Options and Document Properties as they apply to a part and assembly template Create new SolidWorks folder locations Document Templates Reference Documents and Design Library Download components from 3D ContentCentral and rename and save components using SolidWorks Explorer Apply the Bottom up assembly approach with two levels of configurations using the Configure Component tool the Configure Dimension tool

Design Tables and the Add Configuration tool Create new parts based on component features utilizing the Bottom up assembly approach Apply Standard Mates SmartMates and the Design Library Toolbox Apply the Top down assembly approach with two levels of configurations with In Context components Understand the following Out of Context components External References InPlace Mates redefining and replacing components and motion studies Apply the Derived Feature Component Pattern tool Linear Component Pattern tool and the Mirror Component tool along with the Explode Line Sketch tool Create a multi sheet multi view assembly drawing Knowledge of Custom Properties in a part assembly and linked notes with the ability to incorporate configurations of an Exploded view Bill of Materials Revision tables and more Address the Layout based assembly approach and Global Variables and Equations to control relationships Each chapter begins with the desired outcomes and usage competencies Explore assembly modeling techniques through a series of design situations industry scenarios projects and objectives 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 The book compliments and enhances the SolidWorks Tutorials Although over 150 SolidWorks tools and commands are utilized in Assembly Modeling with SolidWorks 2012 the book is not a reference guide The book is a self paced tutorial in a realistic design setting Complex models expose you to large assembly modeling techniques You focus on the design process while learning the commands relative to assemblies To obtain the most from this text you should be familiar with the SolidWorks User Interface or other parametric modeling software application Your skill sets should include the ability to create simple parts assemblies and drawings and manipulate documents through the Windows operating system The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks everyday They create assemblies with thousands of components and drawings with hundreds of sheets Their responsibilities go far beyond the creation of just a 3D model

Engineering Design with SolidWorks 2012 David C. Planchard, Marie P. Planchard, 2012-01-23 Engineering Design with SolidWorks 2012 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 beginning 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 Projects 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 multimedia 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. Online intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality. The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers, department managers, vendors, and manufacturers. These professionals are directly involved with SolidWorks everyday. Their responsibilities go far beyond the creation of just a 3D model. The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2012.

Official Certified SolidWorks Professional (CSWP) Certification Guide and Video Instruction David Planchard, Marie Planchard, 2013-03-18. 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 DVD 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 DVD for both SolidWorks 2012 and 2013. 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.

Drawing and Detailing With Solidworks 2012 David Planchard, Marie Planchard, 2012-05-11. Drawing and Detailing with SolidWorks 2012 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. Drawing and Detailing with SolidWorks 2012 is not a reference book for all drafting and drawing techniques.

and tools The book provides information and examples in the following areas History of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices fasteners in general tolerance and fit and the history of CAD leading to the development of SolidWorks Start a SolidWorks 2012 session and to understand the following interfaces Menu bar toolbar Menu bar menu Drop down menus Context toolbars Consolidated drop down toolbars System feedback icons Confirmation Corner Heads up View toolbar Document Properties and more Apply Document Properties to reflect the ASME Y14 Engineering Drawing and related Drawing Practices Import an AutoCAD file as a Sheet format Insert SolidWorks System Properties and Custom Properties Create new SolidWorks Document tabs Create multi sheet drawings from various part configurations and develop the following drawing views Standard Isometric Auxiliary Section Broken Section Detail Half Section Cut away Crop Projected Back with a Bill of Materials and a Revision Table and Revisions Insert and edit Dimensions Feature Control Frames Datums Geometric Tolerancing Surface Finishes and Weld Symbols using DimXpert and manual techniques Create apply and save Blocks and Parametric Notes in a drawing Chapter 10 provides a bonus section on the Certified SolidWorks Associate CSWA program with sample exam questions and initial and final SolidWorks models The book is designed to compliment the SolidWorks Users Guide SolidWorks Reference Guide Standards Engineering Drawing Design and Graphics Communications reference books The authors recognize that companies utilize additional drawing standards The authors developed the industry scenarios by combining industry experience with their knowledge of engineers sales vendors and manufacturers These professionals are directly involved with SolidWorks everyday Their work goes far beyond a simple drawing with a few dimensions They create detailed drawings assembly drawings marketing drawings and customer drawings SolidWorks users work between drawings parts assemblies and many other documents to complete a project on time

Official Guide to Solidworks Associate Exams David Planchard, 2012-11-14 The Official Guide to Certified SolidWorks Associate Exams CSWA CSDA and CSWSA FEA is written to assist the SolidWorks user to pass the associate level exams Information is provided to aid a person to pass the Certified SolidWorks Associate CSWA Certified Sustainable Design Associate CSDA and the Certified SolidWorks Simulation Associate Finite Element Analysis CSWSA FEA exams There are three goals for this book The primary goal is not only to help you pass the CSWA CSDA and CSWSA FEA exams but also to ensure that you understand and comprehend the concepts and implementation details of the three certification processes The second goal is to provide the most comprehensive coverage of CSWA CSDA and CSWSA FEA 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 the CSWA CSDA and the CSWSA FEA exam The Certified SolidWorks Associate CSWA certification indicates a foundation in and apprentice knowledge of 3D CAD design and engineering practices and principles Passing this exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification

standard The Certified Sustainable Design Associate CSDA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design The Certified SolidWorks Simulation Associate Finite Element Analysis CSWSA FEA certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of stress analysis and finite element analysis SolidWorks 2012 or higher is required to take the exam CSWA Exam Audience The intended audience for this book trying to take and pass the CSWA exam is anyone with a minimum of 6 9 months of SolidWorks experience and basic knowledge of engineering fundamentals and practices SolidWorks recommends that you review their SolidWorks Tutorials on Parts Assemblies Drawings as a prerequisite and have at least 45 hours of classroom time learning SolidWorks or using SolidWorks with basic engineering design principles and practices CSDA Exam Audience The intended audience for this book trying to take and pass the CSDA exam is anyone interested in Sustainable design and life cycle assessment Although no hands on usage of SolidWorks is required for the CSDA certification exam it is a good idea to review the SolidWorks SustainabilityXpress and SolidWorks Sustainability tutorials inside of SolidWorks to better understand the actual workflow CSWSA FEA Exam Audience The intended audience for this book trying to take and pass the CSWSA FEA exam is anyone with a minimum of 6 9 months of SolidWorks experience and knowledge in the following areas Engineering Mechanics Statics Strength of Materials Finite Element Method Finite Element Analysis Theory Applied concepts in SolidWorks Simulation namely Static Analysis Solid Shell and Beam elements Connections and Applying loads and boundary conditions and interpreting results The purpose of this section in the book is NOT to educate a new or intermediate user on SolidWorks Simulation but to cover and to inform you on the required understanding types of questions layout and what to expect when taking the CSWSA FEA exam

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

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

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

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 *Engineering Design with SolidWorks 2014 and Video Instruction* David Planchard,2014 Engineering Design with SolidWorks 2014 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 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 design to compliment the SolidWorks Tutorials contained in SolidWorks 2014 **SolidWorks 2014 in 5 Hours with Video Instruction** David Planchard,2014-03-07 SolidWorks 2014 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 2014 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 Interface 2D Sketching Sketch Planes and Sketch tools 3D Features and Design Intent Creating an Assembly Fundamentals in Drawings Part 1 Fundamentals in Drawings Part 2 Beginner's Guide to Solidworks 2012 Alejandro Reyes,2012-03-12 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 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 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 *Parametric Modeling with SolidWorks 2012* Randy Shih,Paul Schilling,2012-03-22 Parametric Modeling with SolidWorks 2012 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2012 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2012 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 2012 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 *Learning SolidWorks 2012* Randy Shih,2012-02 This book will teach you everything you

need to know to start using SolidWorks 2012 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

Introduction to Finite Element Analysis Using SolidWorks Simulation 2012 Randy H. Shih, 2012 The primary goal of Introduction to Finite Element Analysis Using SolidWorks Simulation 2012 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 Model 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

SolidWorks 2011 Parts and Assemblies Bible, Two-Volume Set Matt Lombard, 2012-05-03 A comprehensive e book package for SolidWorks users SolidWorks is a powerful 3D solid modeler used in computer aided design CAD Popular for its drag and drop point and click and cut and paste functions SolidWorks is complex and the detail found in these two

comprehensive guides gives new users everything they need to become productive with the program This e book set features in depth instruction and complete tutorials on parts making part models and drawings of those parts and assemblies building assemblies and creating assembly drawings Together they provide the knowledge you need to get up and running with SolidWorks 2011 SolidWorks 2011 is a complex 3D solid modeling program the two in depth guides in this e book set cover making parts models and building assemblies as well as creating drawings of both Set includes complete e book versions of SolidWorks 2011 Parts Bible and SolidWorks 2011 Assemblies Bible Written by a veteran manufacturing engineer and consultant who does SolidWorks training maintains a SolidWorks blog and is known as the go to guy for information about the software Covers both the how and why of SolidWorks with extensive detail that will take you from novice to confident SolidWorks user SolidWorks 2011 Parts Assemblies Set provides a comprehensive education in using this popular 3D solid modeling program SolidWorks 2011 Parts Assemblies Set provides a comprehensive education in using this popular 3D solid modeling program

Immerse yourself in the artistry of words with is expressive creation, Discover the Artistry of **Commands Guide Tutorial For Solidworks 2012** . This ebook, presented in a PDF format (Download in PDF: *), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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