

SOLIDWORKS® 2015

SOLIDWORKS Essentials

Dassault Systèmes SolidWorks Corporation
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Solidworks 2015 Manual

Randy Shih

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

Solidworks 2015 Manual:

SolidWorks 2015 Tutorial with Video Instruction David Planchard, 2014-12 SolidWorks 2015 Tutorial with video instruction is target towards a technical school two year college four year university or industry professional that is a beginner or intermediate CAD user The text provides a student who is looking for a step by step project based approach to learning SolidWorks with video instruction SolidWorks model files and preparation for the Certified Associate Mechanical Design CSWA exam The book is divided into three sections Chapters 1 6 explore the SolidWorks User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs Revision tables using basic and advanced features Chapters 7 10 prepare you for the Certified Associate Mechanical Design CSWA exam The certification indicates a foundation in and apprentice knowledge of 3D CAD and engineering practices and principles Review Chapter 11 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Follow the step by step instructions and develop multiple assemblies that combine over 100 extruded machined parts and components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components apply proper design intent design tables and configurations Learn by doing not just by reading Desired outcomes and usage competencies are listed for each chapter Know your objective up front Follow the steps in each chapter to achieve your design goals Work between multiple documents features commands custom properties and document properties that represent how engineers and designers utilize SolidWorks in industry

SolidWorks 2015 Reference Guide David Planchard, 2014-11-02 The SolidWorks 2015 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2015 SolidWorks is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2015 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SolidWorks Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2015 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature The book provides access

to over 240 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2015 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SolidWorks every day and his responsibilities go far beyond the creation of just a 3D model **Beginner's**

Guide to SolidWorks 2015 - Level II Alejandro Reyes, 2015-02 Beginner's Guide to SolidWorks 2015 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 SolidWorks 2015 Part II - Advanced Techniques Paul Tran, 2014-12-12 SolidWorks 2015

Part II Advanced Techniques picks up where SolidWorks 2015 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 Who this book is for This book is for the intermediate user who has already completed the Part I

Basic Tools book or someone who is very familiar with the SolidWorks Program and its add ins **Beginner's Guide to SolidWorks 2015 - Level I** Alejandro Reyes, 2015-01-14 This book is intended to help new users learn the basic concepts of SolidWorks and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SolidWorks or as a teaching aid in classroom training to become familiar with the software's interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SolidWorks interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn The author strived hard to include the commands required in the Certified SolidWorks Associate test as listed on the SolidWorks website as well as several more SolidWorks is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands *Engineering Graphics with SOLIDWORKS 2015 and Video Instruction* David Planchard, 2015-01-14 Engineering Graphics with SOLIDWORKS 2015 and video instruction is written to assist the technical school two year college four year university instructor student or industry professional that is a beginner or intermediate SOLIDWORKS user The book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning SOLIDWORKS with video instructions Learn by doing not just by reading The book is divided into four sections Chapters 1 3 explore the history of engineering graphics manual sketching techniques orthographic projection Third vs First angle projection multi view drawings dimensioning practices ASME Y14.5 2009 standard line type fit type tolerance fasteners in general general thread notes and the history of CAD leading to the development of SOLIDWORKS Chapters 4 9 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple machine parts simple and complex assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features Follow the step by step instructions in over 80 activities to develop eight parts four sub assemblies three drawings and six document templates Chapter 10 provides a section on the Certified Associate Mechanical Design CSWA program with sample exam questions and initial and final SOLIDWORKS models Chapter 11 provides a section on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Review individual features commands and tools using the video instruction and SOLIDWORKS Help The chapter exercises analyze and examine usage competencies based on the chapter objectives The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu Desired outcomes and

usage competencies are listed for each project Know your objectives up front Follow the step by step procedures to achieve your design goals Work between multiple documents features commands and properties that represent how engineers and designers utilize SOLIDWORKS in industry The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

SOLIDWORKS 2015 in 5 Hours with Video Instruction David Planchard, 2015-02 OLIDWORKS 2015 in 5 Hours with video instruction introduces the new user to the basics of using SOLIDWORKS 3D CAD software in five easy lessons This book is intended for the student or designer that needs to learn SOLIDWORKS quickly and effectively for senior capstone machine design kinematics dynamics and other engineering and technology projects that use SOLIDWORKS as a tool Engineers in industry are expected to have SOLIDWORKS skills for their company s next project Students need to learn SOLIDWORKS without taking a formal CAD course Based on years of teaching SOLIDWORKS to engineering students SOLIDWORKS 2015 in 5 Hours concentrates on the areas where the new user improves efficiency in the design modeling process By learning the correct SOLIDWORKS skills and file management techniques you gain the most knowledge in the shortest period of time You develop a mini Stirling Engine and investigate the proper design intent and constraints The mini Stirling Engine is based on the external combustion closed cycle engine of Scottish inventor Robert Stirling In addition to 3D modeling the engine can be used to teach and connect many engineering and physics principles You begin with an overview of SolidWorks and the User Interface UI its menus toolbars and commands With a quick pace you learn the essentials of 2D sketching part and assembly creation preform motion study develop detailed part and assembly drawings and much more View the provided videos for each section of the book to enhance your experience SOLIDWORKS 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 *Engineering Design with SolidWorks 2015 and Video Instruction* David Planchard, 2014-11-28 Engineering Design with SolidWorks 2015 and video instruction is written to assist students designers engineers and professionals The book provides a solid foundation in SolidWorks by utilizing projects with step by step instructions for the beginner to intermediate SolidWorks user Explore the user interface CommandManager menus toolbars and modeling techniques to create parts assemblies and drawings in an engineering environment Follow the step by step instructions and develop multiple parts and assemblies that combine machined plastic and sheet metal components Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components Design Tables Bills of Materials Custom Properties and Configurations Address various SolidWorks analysis tools and Intelligent Modeling techniques along with Additive Manufacturing 3D printing Learn by doing not just by reading Desired outcomes and usage competencies are listed for each

project Know your objective up front Follow the steps in Projects 1 9 to achieve the design goals Review Project 10 on Additive Manufacturing 3D printing and its benefits and features Understand the terms and technology used in low cost 3D printers Work between multiple documents features commands and custom properties that represent how engineers and designers utilize SolidWorks in industry Review individual features commands and tools with the Video Instruction The projects contain exercises The exercises analyze and examine usage competencies Collaborate with leading industry suppliers such as SMC Corporation of America Boston Gear and 80 20 Inc Collaborative information translates into numerous formats such as paper drawings electronic files rendered images and animations On line intelligent catalogs guide designers to the product that meets both their geometric requirements and performance functionality The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model The book is designed to compliment the SolidWorks Tutorials contained in SolidWorks 2015 View the provided videos in the book to enhance the user experience SolidWorks Interface 2D Sketching Sketch Planes and Sketch tools 3D Features and Design Intent Creating an Assembly Fundamentals in Drawings Part 1 Part 2 *SOLIDWORKS 2015 and Engineering Graphics* Randy Shih, 2015 *SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach* combines an introduction to SOLIDWORKS 2015 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What's more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of *SOLIDWORKS 2015 and Engineering Graphics An Integrated Approach* is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2015 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of fifteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2015's features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

Integrated Computer Technologies in Mechanical Engineering - 2024 Oleksii Lytvynov, Volodymyr Pavlikov, Dmytro Krytskyi, 2025-08-20 This book covers areas such as information technology in engine design and production information technology in the creation of rocket and space systems aerospace engineering transport systems and logistics big

data and data science nanomodeling artificial intelligence and intelligent systems networks and communications cyber physical systems and IoE as well as software engineering and IT infrastructure The materials were tested during the International Scientific and Technical Conference Integrated Computer Technologies in Mechanical Engineering Synergetic Engineering ICTM was established by the National Aerospace University Kharkiv Aviation Institute The ICTM 2024 conference was held in Kharkiv Ukraine in December 2024 During this conference technical exchange between the scientific community was carried out in the form of keynote speeches panel discussions and a special session More than 140 papers from different countries were received at ICTM 2024 The book offers us a lot of valuable information and is very useful for the exchange of experience between scientists in the field of modeling and simulation ICTM was created to bring together outstanding researchers and practitioners in the field of information technology in the design and manufacture of engines the creation of rocket and space systems aerospace engineering from all over the world to exchange experiences and expertise

Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA (SOLIDWORKS 2015 - 2017)

David Planchard, 2017-02 The Official Guide to Certified SOLIDWORKS Associate Exams CSWA CSDA 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 SOLIDWORKS Sustainable Design Associate CSDA and the Certified SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam 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 SOLIDWORKS 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 the Finite Element Method FEM

SolidWorks 2015 Part I - Basic Tools Paul Tran, 2014-12-12 SolidWorks 2015 Part I Basic Tools introduces new users to the SolidWorks interface SolidWorks tools and basic modeling techniques It provides readers with a strong understanding of SolidWorks and covers the creation of parts assemblies and drawings Every lesson and exercise in this book was created based on real world projects Each of these projects have been broken down and developed into easy

and comprehensible steps for the reader Furthermore at the end of every chapter there are self test questionnaires to ensure that the reader has gained sufficient knowledge from each section before moving on to more advanced lessons This book takes the approach that in order to understand SolidWorks inside and out the reader should create everything from the beginning and take it step by step Who this book is for This book is for the beginner who is not familiar with the SolidWorks program and its add ins

An Introduction to SOLIDWORKS Flow Simulation 2015 John Matsson,2015-07 An Introduction to SOLIDWORKS Flow Simulation 2015 takes you through the steps of creating the SOLIDWORKS part for the simulation followed by the setup and calculation of the SOLIDWORKS Flow Simulation project The results from calculations are visualized and compared with theoretical solutions and empirical data Each chapter starts with the objectives and a description of the specific problems that are studied End of chapter exercises are included for reinforcement and practice of what has been learned The fourteen chapters of this book are directed towards first time to intermediate level users of SOLIDWORKS Flow Simulation It is intended to be a supplement to undergraduate Fluid Mechanics and Heat Transfer related courses This book can also be used to show students the capabilities of fluid flow and heat transfer simulations in freshman and sophomore courses such as Introduction to Engineering Both internal and external flow problems are covered and compared with experimental results and analytical solutions Covered topics include airfoil flow boundary layers flow meters heat exchanger natural and forced convection pipe flow rotating flow tube bank flow and valve flow

Analysis of Machine Elements Using SOLIDWORKS Simulation 2015 Shahin Nudehi,John Steffen,2015-04 Analysis of Machine Elements Using SOLIDWORKS Simulation 2015 is written primarily for first time SOLIDWORKS Simulation 2015 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements The focus of examples is on problems commonly found in an introductory undergraduate Design of Machine Elements or similarly named courses In order to be compatible with most machine design textbooks this text begins with problems that can be solved with a basic understanding of mechanics of materials Problem types quickly migrate to include states of stress found in more specialized situations common to a design of mechanical elements course Paralleling this progression of problem types each chapter introduces new software concepts and capabilities Many examples are accompanied by problem solutions based on use of classical equations for stress determination Unlike many step by step user guides that only list a succession of steps which if followed correctly lead to successful solution of a problem this text attempts to provide insight into why each step is performed This approach amplifies two fundamental tenets of this text The first is that a better understanding of course topics related to stress determination is realized when classical methods and finite element solutions are considered together The second tenet is that finite element solutions should always be verified by checking whether by classical stress equations or experimentation Each chapter begins with a list of learning objectives related to specific capabilities of the SolidWorks Simulation program introduced in that chapter Most software capabilities are repeated in subsequent examples so that users

gain familiarity with their purpose and are capable of using them in future problems All end of chapter problems are accompanied by evaluation check sheets to facilitate grading assignments

Automating SOLIDWORKS 2015 Using Macros Mike Spens, 2015-02 Automating SOLIDWORKS 2015 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS and SOLIDWORKS Workgroup or Enterprise 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 or Enterprise 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 macrosControl Custom PropertiesCreate parts and featuresBuild assembliesBatch create drawingsExtract information from PDMCreate many other time saving utilities

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

Automating SOLIDWORKS 2021 Using Macros Mike Spens, 2021-03-18 Engineers working with SOLIDWORKS are often faced with tedious repetitive work that can consume a lot of time but it doesn t have to be this way One of the most exciting aspects of SOLIDWORKS is its robust programming interface or API The SOLIDWORKS API allows you to write code that can perform almost any series of actions for you SOLIDWORKS was built from the ground up to automate and in this book you will learn how to take advantage of these powerful tools to speed up your work Automating SOLIDWORKS 2021 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS Experience with programming isn t required The

book starts with a new chapter on the fundamentals of Visual Basic NET and the SOLIDWORKS API to make the learning process easier for beginners The rest of the book introduces you to developing macros using the SOLIDWORKS API The book concludes with a chapter dedicated to some of the author s favorite source code for you to use as the basis for typical automation procedures 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 will teach you the fundamentals of Visual Basic NET as well as SOLIDWORKS SOLIDWORKS PDM Professional SOLIDWORKS Document Manager and Excel API functions Author Mike Spens has been professionally developing macros for SOLIDWORKS for more than a decade He has helped numerous companies develop their own programs and streamline their workflows If you want to learn how to develop your own macros for SOLIDWORKS following best practices and using well written code then this is the perfect book for you

SolidWorks 2016 Reference Guide David Planchard,2015-12-16 The SOLIDWORKS 2016 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2016 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 2016 This book covers the following System and Document propertiesFeatureManagersPropertyManagersConfigurationManagersRenderManagers2D and 3D Sketch toolsSketch entities3D Feature toolsMotion StudySheet MetalMotion StudySolidWorks SimulationPhotoView 360Pack and Go3D PDFsIntelligent Modeling techniques3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2016 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 240 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SOLIDWORKS 2016 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

Automating SOLIDWORKS 2023 Using Macros Mike Spens,2023-05-04 Learn how to save time by automating repetitive work Teaches

you how to develop macros for SOLIDWORKS the SOLIDWORKS Document Manager and SOLIDWORKS PDM Professional Programming experience is not required Covers many of the major API functions through practical use cases Focuses on the Visual Studio Tools for Applications macro interface Engineers working with SOLIDWORKS are often faced with tedious repetitive work that can consume a lot of time but it doesn't have to be this way One of the most exciting aspects of SOLIDWORKS is its robust programming interface or API The SOLIDWORKS API allows you to write code that can perform almost any series of actions for you SOLIDWORKS was built from the ground up to automate and in this book you will learn how to take advantage of these powerful tools to speed up your work Automating SOLIDWORKS 2023 Using Macros is designed as a tutorial to help beginner to intermediate programmers develop macros for SOLIDWORKS Experience with programming isn't required The book starts with a chapter on the fundamentals of Visual Basic .NET and the SOLIDWORKS API to make the learning process easier for beginners The rest of the book introduces you to developing macros using the SOLIDWORKS API The book concludes with a chapter dedicated to some of the author's favorite source code for you to use as the basis for typical automation procedures 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 will teach you the fundamentals of Visual Basic .NET as well as SOLIDWORKS SOLIDWORKS PDM Professional SOLIDWORKS Document Manager and Excel API functions Author Mike Spens has been professionally developing macros for SOLIDWORKS for more than a decade He has helped numerous companies develop their own programs and streamline their workflows If you want to learn how to develop your own macros for SOLIDWORKS following best practices and using well-written code then this is the perfect book for you What you'll learn Record macros Control Custom Properties Create parts and features Build assemblies Batch create drawings Extract information from PDM Create add-ins from macros Create many other time-saving utilities

SolidWorks 2015 Learn by Doing (Part, Assembly, Drawings, Sheet Metal, Surface Design, Mold Tools, Weldments, DimXpert, and Rendering) Tutorial Books, 2015-02-12 The objective of this book is to help you learn SOLIDWORKS 2015 by practically using its various features The fourteen lessons in this tutorial introduce you to the designing documentation and presentation in SOLIDWORKS 2015 The topics covered in this tutorial are part and assembly design sketch 3D part assembly 2D drawing sheetmetal surface design mold tools weldments DimXpert and rendering

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Table of Contents Solidworks 2015 Manual

1. Understanding the eBook Solidworks 2015 Manual
 - The Rise of Digital Reading Solidworks 2015 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Solidworks 2015 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solidworks 2015 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solidworks 2015 Manual
 - Personalized Recommendations
 - Solidworks 2015 Manual User Reviews and Ratings
 - Solidworks 2015 Manual and Bestseller Lists
5. Accessing Solidworks 2015 Manual Free and Paid eBooks
 - Solidworks 2015 Manual Public Domain eBooks
 - Solidworks 2015 Manual eBook Subscription Services
 - Solidworks 2015 Manual Budget-Friendly Options

6. Navigating Solidworks 2015 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Solidworks 2015 Manual Compatibility with Devices
 - Solidworks 2015 Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solidworks 2015 Manual
 - Highlighting and Note-Taking Solidworks 2015 Manual
 - Interactive Elements Solidworks 2015 Manual
8. Staying Engaged with Solidworks 2015 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solidworks 2015 Manual
9. Balancing eBooks and Physical Books Solidworks 2015 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solidworks 2015 Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solidworks 2015 Manual
 - Setting Reading Goals Solidworks 2015 Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solidworks 2015 Manual
 - Fact-Checking eBook Content of Solidworks 2015 Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Solidworks 2015 Manual Introduction

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