

# **Solidworks Exercise Tutorials Guide**

**Prof. Sham Tickoo** 

#### **Solidworks Exercise Tutorials Guide:**

SOLIDWORKS 2020: A Tutorial Approach, 5th Edition Prof. Sham Tickoo, 2020-10-22 SOLIDWORKS 2020 A Tutorial Approach introduces readers to SOLIDWORKS 2020 software one of the world's leading parametric solid modeling packages In this book the author has adopted a tutorial based approach to explain the fundamental concepts of SOLIDWORKS This book has been written with the tutorial point of view and the learn by doing theme to help the users easily understand the concepts covered in it The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software The book covers a wide range of topics such as Sketching Part Modeling Assembly Modeling Drafting in SOLIDWORKS 2020 In addition this book covers the basics of Mold Design FEA and SOLIDWORKS Simulation Salient Features Consists of 12 chapters that are organized in a pedagogical sequence Tutorial approach to explain various concepts of SOLIDWORKS 2020 First page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Real world mechanical engineering designs as tutorials and projects Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters for the users to assess their knowledge Additional learning resources at https allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to SOLIDWORKS 2020 Chapter 2 Drawing Sketches for Solid Models Chapter 3 Editing and Modifying Sketches Chapter 4 Adding Relations and Dimensions to Sketches Chapter 5 Advanced Dimensioning Techniques and Base Feature Options Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling Tools I Chapter 8 Advanced Modeling Tools II Chapter 9 Assembly Modeling Chapter 10 Working with Drawing Views Chapter 11 Introduction to FEA and SOLIDWORKS Simulation Chapter 12 Introduction to Mold Design Student Project Index SOLIDWORKS 2018: A Tutorial Approach, 4th Edition Prof. Sham Tickoo, 2018 SOLIDWORKS 2018 A Tutorial Approach introduces readers to SOLIDWORKS 2018 software one of the world s leading parametric solid modeling packages In this book the author has adopted a tutorial based approach to explain the fundamental concepts of SOLIDWORKS This book has been written with the tutorial point of view and the learn by doing theme to help the users easily understand the concepts covered in it The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software The book covers a wide range of topics such as Sketching Part Modeling Assembly Modeling Drafting in SOLIDWORKS 2018 In addition this book covers the basics of Mold Design FEA and SOLIDWORKS Simulation Salient Features Consists of 12 chapters that are organized in a pedagogical sequence Tutorial approach to explain various concepts of SOLIDWORKS 2018 First page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Several real world mechanical engineering designs as tutorials and projects Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the

chapters for the users to assess their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at http allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to SOLIDWORKS 2018 Chapter 2 Drawing Sketches for Solid Models Chapter 3 Editing and Modifying Sketches Chapter 4 Adding Relations and Dimensions to Sketches Chapter 5 Advanced Dimensioning Techniques and Base Feature Options Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling Tools I Chapter 8 Advanced Modeling Tools II Chapter 9 Assembly Modeling Chapter 10 Working with Drawing Views Chapter 11 Introduction to FEA and SOLIDWORKS Simulation Chapter 12 Introduction to Mold Design Student Project Index **SOLIDWORKS 2022: A Tutorial Approach, 6th Edition Prof.** Sham Tickoo, 2021-12-21 SOLIDWORKS 2022 A Tutorial Approach introduces readers to SOLIDWORKS 2022 software one of the world's leading parametric solid modeling packages In this book the author has adopted a tutorial based approach to explain the fundamental concepts of SOLIDWORKS This book has been written with a tutorial point of view and a learn by doing theme to help the users easily understand the concepts covered in it The book consists of 12 chapters that are structured in a pedagogical sequence that makes the book very effective in learning the features and capabilities of the software The book covers a wide range of topics such as Sketching Part Modeling Assembly Modeling and Drafting in SOLIDWORKS 2022 In addition this book covers the basics of Mold Design FEA and SOLIDWORKS Simulation Salient Features Consists of 12 chapters that are organized in a pedagogical sequence Tutorial approach to explain various concepts of SOLIDWORKS 2022 First page of every chapter summarizes the topics that are covered in it Step by step instructions that guide the users through the learning process Real world mechanical engineering designs as tutorials and projects Additional information throughout the book is in the form of notes and tips Self Evaluation Tests and Review Ouestions at the end of the chapters for the users to assess their knowledge Additional learning resources are at http allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to SOLIDWORKS 2022 Chapter 2 Drawing Sketches for Solid Models Chapter 3 Editing and Modifying Sketches Chapter 4 Adding Relations and Dimensions to Sketches Chapter 5 Advanced Dimensioning Techniques and Base Feature Options Chapter 6 Creating Reference Geometries Chapter 7 Advanced Modeling Tools I Chapter 8 Advanced Modeling Tools II Chapter 9 Assembly Modeling Chapter 10 Working with Drawing Views Chapter 11 Introduction to FEA and SOLIDWORKS Simulation Chapter 12 Introduction to Mold Design Student Project Index

SOLIDWORKS 2023 Tutorial David Planchard, 2023-05-04 SOLIDWORKS 2023 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The

physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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 2020 Tutorial David Planchard, 2019-12 Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing SOLIDWORKS 2020 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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 2024 Tutorial David Planchard, 2024-02 Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing This edition includes a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform Get ready to take your 3D CAD skills to the next level with SOLIDWORKS 2024 Tutorial Whether you re a student designer engineer or professional who s new to SOLIDWORKS this book is the ultimate guide to mastering SOLIDWORKS impressive capabilities And if you re preparing for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam you re in luck because this book has got you covered Featuring a project based learning approach and step by step instructions the first six chapters cover the User Interface CommandManager Document and System properties and beyond with exploration of everything from design intent and design tables to configurations multi sheet drawings BOMs and Revision tables Use basic and advanced features to create simple and complex parts and assemblies And for the grand finale chapter 6 takes you through the creation of a robot assembly complete with all the assemblies and components you ll need Information and examples on the five categories in the CSWA exam are embedded throughout the book but chapters 7 10 specifically focus on preparation for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam which will confirm you have a foundation in and apprentice knowledge of 3D CAD and engineering principles And for those looking to explore the exciting world of additive manufacturing 3D printing chapter 11 presents the benefits of 3D printing how it differs from subtractive manufacturing and the terminology and technology used in low cost 3D printers With clear concise instructions and desired outcomes listed for each chapter of the tutorial you ll know exactly what you re working towards every step of the way Work between multiple documents features and commands like a pro Build multiple assemblies that combine over 100 extruded machined parts and components and develop the skills to create modify and edit sketches and solid features Plus you ll learn how to reuse features parts and assemblies through symmetry patterns copied components and more Start learning by doing and become a 3D CAD expert with SOLIDWORKS 2024 Tutorial Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform SOLIDWORKS Simulation 2018: A Tutorial Approach Prof. Sham Tickoo, 2018 SOLIDWORKS Simulation 2018 A Tutorial

Approach book has been written to help the users learn the basics of FEA In this book the author has used the tutorial point of view and the learn by doing theme to explain the tools and concepts of FEA using SOLDWORKS Simulation Real world mechanical engineering industry examples and tutorials have been used to ensure that the users can relate the knowledge gained through this book with the actual mechanical industry designs This book covers all important topics and concepts such as Model Preparation Meshing Connections Contacts Boundary Conditions Structural Analysis Buckling Analysis Fatigue Analysis Thermal Analysis Nonlinear Analysis and Frequency Analysis Salient Features Book consisting of 9 chapters that are organized in a pedagogical sequence Summarized content on the first page of the topics that are covered in the chapter More than 30 real world mechanical engineering simulation problems used as tutorials and projects with step by step explanation Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to FEA and SOLIDWORKS Simulation Chapter 2 Defining Material Properties Chapter 3 Meshing Chapter 4 Linear Static Analysis Chapter 5 Advanced Structural Analysis Chapter 6 Frequency Analysis Chapter 7 Thermal Analysis Chapter 8 Nonlinear Analysis Chapter 9 Implementation of FEA Index SOLIDWORKS 2025 Tutorial David Planchard, Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Features a bonus eBook on SOLIDWORKS and the 3DEXPERIENCE platform Get ready to take your 3D CAD skills to the next level with SOLIDWORKS 2025 Tutorial Whether you re a student designer engineer or professional who s new to SOLIDWORKS this book is the ultimate guide to mastering SOLIDWORKS impressive capabilities And if you re preparing for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam you re in luck because this book has got you covered Featuring a project based learning approach and step by step instructions the first six chapters cover the User Interface CommandManager Document and System properties and beyond with exploration of everything from design intent and design tables to configurations multi sheet drawings BOMs and Revision tables Use basic and advanced features to create simple and complex parts and assemblies And for the grand finale chapter 6 takes you through the creation of a robot assembly complete with all the assemblies and components you ll need Information and examples on the five categories in the CSWA exam are embedded throughout the book but chapters 7 10 specifically focus on preparation for the Certified SOLIDWORKS Associate Mechanical Design CSWA exam which will confirm you have a foundation in and apprentice knowledge of 3D CAD and engineering principles And for those looking to explore the exciting world of additive manufacturing 3D printing chapter 11 presents the benefits of 3D printing how it differs from subtractive manufacturing and the terminology and technology used in low cost 3D printers With clear concise instructions and desired outcomes listed for each chapter of the tutorial you ll know exactly what you re working towards

every step of the way Work between multiple documents features and commands like a pro Build multiple assemblies that combine over 100 extruded machined parts and components and develop the skills to create modify and edit sketches and solid features Plus you ll learn how to reuse features parts and assemblies through symmetry patterns copied components and more Start learning by doing and become a 3D CAD expert with SOLIDWORKS 2025 Tutorial Includes a Bonus eBook Covering SOLIDWORKS and 3DEXPERIENCE Platform Included with your purchase of this book is a bonus eBook titled SOLIDWORKS and the 3DEXPERIENCE Platform This eBook is an insightful guide that introduces you to the 3DEXPERIENCE Platform and its integration with SOLIDWORKS This resource simplifies complex concepts allowing users to collaborate efficiently in a single modeling environment accessible through the SOLIDWORKS Task Pane The book features nine detailed step by step tutorials complete with models to practice and understand the tools and advantages of using SOLIDWORKS with the 3DEXPERIENCE platform This guide will help you understand the 3DEXPERIENCE Platform s capabilities demonstrating practical real world applications in educational and professional settings It s an essential resource for anyone looking to leverage the full potential of SOLIDWORKS in conjunction with the 3DEXPERIENCE platform

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 SOLIDWORKS 2019 Tutorial David properties that represent how engineers and designers utilize SolidWorks in industry Planchard, 2018-12-21 SOLIDWORKS 2019 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the

SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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 SolidWorks 2013 Tutorial David C. Planchard, Marie P. Planchard, 2013 SolidWorks 2013 utilize SOLIDWORKS in industry 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 SolidWorks 2013 for Designers Prof. Sham Tickoo, 2013-01-25 Consists of 1028 pages of

heavily illustrated text covering the following features of SolidWorks part design assembly design detailing and drafting blocks sheet metal modeling and surface modeling Cover SOLIDWORKS 2018 Tutorial with Video Instruction David Planchard, 2018 SOLIDWORKS 2018 Tutorial with video instruction is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories to take and understand the Certified Associate Mechanical Design CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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 Simulation 2016: A Tutorial Approach Prof. Sham Tickoo, 2017-06-29 SOLIDWORKS Simulation 2016 A Tutorial Approach book has been written to help the users learn the basics of FEA In this book the author has used the tutorial point of view and the learn by doing theme to explain the tools and concepts of FEA using SOLIDWORKS Simulation Real world mechanical engineering industry examples and tutorials have been used to ensure that the users can relate the knowledge gained through this book with the actual mechanical industry designs This book covers all important topics and concepts such as Model Preparation Meshing Connections Contacts Boundary Conditions Structural Analysis Buckling Analysis Fatigue Analysis Thermal Analysis and Frequency Analysis Salient Features Book consisting of 8 chapters that are organized in a pedagogical sequence Summarized content on the first page of the topics that are covered in the chapter More than 25 real world mechanical engineering simulation problems used as tutorials and projects with step by step explanation Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess

their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at allaboutcadcam blogspot com Table of Contents Chapter 1 Introduction to FEA and SOLIDWORKS Simulation Chapter 2 Defining Material Properties Chapter 3 Meshing Chapter 4 Linear Static Analysis Chapter 5 Advanced Structural Analysis Chapter 6 Frequency Analysis Chapter 7 Thermal Analysis Chapter 8 Report and Interpretation Index **SOLIDWORKS 2017 Tutorial with** Video Instruction David Planchard, 2017 SOLIDWORKS 2017 Tutorial with video instruction is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories to take and understand 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 equations multi sheet multi view drawings BOMs and 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 View 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 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 Commands Guide Tutorial for SolidWorks 2011 David C. Planchard, Marie P. Planchard, 2010 The Commands Guide Tutorial for SolidWorks 2011 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2011 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 2011 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 2011 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Tutorial 1 Tutorial 2 and Tutorial 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you might still want to skim Chapter1 to get acquainted with some of the new commands menus and features that you haven t 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 provided on the enclosed book CD with their solution initial and final Learn by doing not just reading Formulate the skills to create modify and edit sketches and solid features You will also 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 2011 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs

SOLIDWORKS 2021 Tutorial David Planchard, 2020-12 SOLIDWORKS 2021 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from

Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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 **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 2022 Tutorial** David Planchard, 2022-04 Uses step by step project based tutorials designed for beginning or intermediate users Will prepare you for the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing SOLIDWORKS 2022 Tutorial is written to assist students designers engineers and professionals who are new to SOLIDWORKS The text provides a step by step project based learning approach It also contains information and examples on the five categories in the CSWA exam The book is divided into four sections Chapters 1 5 explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features In chapter 6 you will create the final robot assembly The physical components and corresponding Science Technology Engineering and Math STEM curriculum are available from Gears Educational Systems All assemblies and components for the final robot assembly are provided 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 Chapter 11 covers the benefits of additive manufacturing 3D printing how it differs from subtractive manufacturing and its features You will also learn 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

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