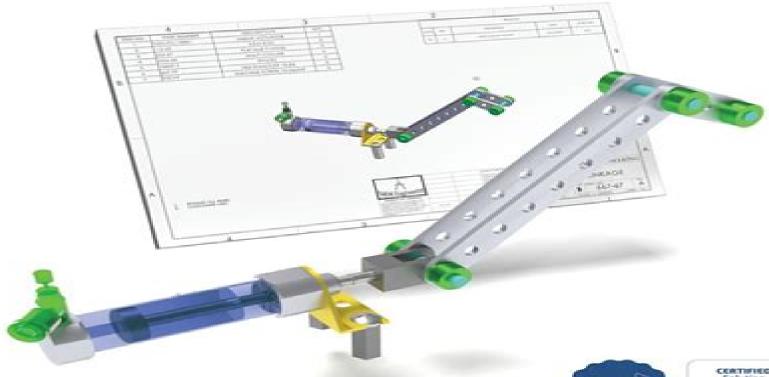# SOLIDWORKS® 2024 Tutorial

## A Step-by-Step Project Based Approach
## Utilizing 3D Solid Modeling

David C. Planchard, CSWP,
SOLIDWORKS Accredited Educator

CERTIFIED
Solution
Partner
SOLIDWORKS

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# [Introducing Solidworks Manual](#)

**CL Gary**

**Introducing Solidworks Manual:**

**A Hands-On Introduction to SOLIDWORKS 2023** Kirstie Plantenberg,2023-03-31 Intended for users completely new to SOLIDWORKS Designed to complement an engineering graphics course Utilizes many real life parts and assemblies Includes over fifteen hours of video instruction SOLIDWORKS is the industry standard in 3D parametric modeling software making it an essential tool for anyone going into a wide variety of engineering and design industries Specifically written for those who are new to SOLIDWORKS A Hands On Introduction to SOLIDWORKS 2023 allows you to relax and learn as you follow an expert in SOLIDWORKS through the basics of the software to its more in depth capabilities Formerly called Project Based SOLIDWORKS this revised edition includes new and expanded tutorials This book works perfectly for a freshman design class or as a companion text to an engineering graphics textbook Each tutorial in the book teaches you how to use engineering graphics concepts while modeling real world parts and assemblies Learn how to model parts configurations create part prints and assembly drawings As you become more comfortable with SOLIDWORKS later chapters introduce FEA how to create more complex solid geometries with parametric modeling apply tolerances and use advanced and mechanical mates Important commands and features are highlighted and defined in each chapter to help you become familiar with them Instructional videos for all the tutorials and the end of chapter problems come with the book so if you need more help or are a visual learner you can refer to them Some problems are purposely left open ended to simulate real life design situations therefore more than one solution is possible After completing all the tutorials in this book you will be able to accurately design moderately difficult parts and assemblies and have a firm foundation in SOLIDWORKS Why this book Instructors and learners will appreciate the thoughtful and well organized layout of A Hands On Introduction to SOLIDWORKS 2023 Every chapter begins with the prerequisites needed to complete the tutorials found in the chapter and a list of what you will learn You do not necessarily need to complete the tutorials within the book in order but make sure that you have the pre requisite knowledge before you begin Practice modeling problems and or quiz problems at the end of each chapter offer an extra challenge and let you practice your newfound skills Working with realistic part models and assemblies means that questions and problems might arise as they would when you are working on your real life projects The author anticipates these questions and how to address them For example if you are in the wrong standard or not on the correct layer or an unexpected window appears on the screen tips and notes quickly remedy the issue Work alongside the author using the instructional videos included for every tutorial and end of chapter problems in the book Information on new commands or steps appear at the beginning of each chapter They include definitions of new features and concepts and images of how they look on the screen Everything is clearly labeled for easy identification Throughout the book readers are referred to the appropriate section of the chapter for more information on the command when needed A command index at the back of the book lists where each command can be found for easy reference at any time **A Hands-On Introduction to**

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requiring SOLIDWORKS proficiency A three hour limit ensures the practice exam aligns with the real world testing experience sharpening both your skills and time management Some questions within this practice exam have several variations to the same question For example one question may start out by asking you to create a model The measurements provided can differ between each variation of that question thus requiring a different answer to the associated question For educators the book includes a version of the exam that integrates seamlessly into most Learning Management Systems LMS providing you an effective tool for student assessment and a valuable resource to prepare your student for the actual CSWA exam Topics covered Part modeling Part configurations Assembly Static FEA Part Prints Assembly drawings Fasteners Tolerancing Parametric Modeling 3D sketches Rendering Table of Contents 1 Basic Part Modeling in SOLIDWORKS 2 Basic Drawings in SOLIDWORKS 3 Intermediate Part Modeling in SOLIDWORKS 4 Intermediate Drawings in SOLIDWORKS 5 Configurations in SOLIDWORKS 6 Static FEA in SOLIDWORKS 7 Basic Assemblies in SOLIDWORKS 8 Assembly Drawings in SOLIDWORKS 9 Advanced Part Modeling in SOLIDWORKS 10 Intermediate Assemblies in SOLIDWORKS 11 Tolerancing and Threads in SOLIDWORKS 12 Parametric Modeling in SOLIDWORKS 13 Advanced Assemblies in SOLIDWORKS 14 3D Sketches in SOLIDWORKS 15 Rendering in SOLIDWORKS Visualize    *A Hands-On Introduction to SOLIDWORKS 2024* Kirstie Plantenberg,2024-05-10 Intended for users completely new to SOLIDWORKS Designed to complement an engineering graphics course Utilizes many real life parts and assemblies Includes over fifteen hours of video instruction Comes with a timed and graded interactive CSWA practice exam SOLIDWORKS is the industry standard in 3D parametric modeling software making it an essential tool for anyone going into a wide variety of engineering and design industries Specifically written for those who are new to SOLIDWORKS A Hands On Introduction to SOLIDWORKS 2024 allows you to relax and learn as you follow an expert in SOLIDWORKS through the basics of the software to its more in depth capabilities This book works perfectly for a freshman design class or as a companion text to an engineering graphics textbook Each tutorial in the book teaches you how to use engineering graphics concepts while modeling real world parts and assemblies Learn how to model parts configurations create part prints and assembly drawings As you become more comfortable with SOLIDWORKS later chapters introduce FEA how to create more complex solid geometries with parametric modeling apply tolerances and use advanced and mechanical mates Important commands and features are highlighted and defined in each chapter to help you become familiar with them Instructional videos for all the tutorials and the end of chapter problems come with the book so if you need more help or are a visual learner you can refer to them Some problems are purposely left open ended to simulate real life design situations therefore more than one solution is possible After completing all the tutorials in this book you will be able to accurately design moderately difficult parts and assemblies and have a firm foundation in SOLIDWORKS Why this book Instructors and learners will appreciate the thoughtful and well organized layout of A Hands On Introduction to SOLIDWORKS 2024 Every chapter begins with the prerequisites needed to complete the tutorials found in the chapter and

a list of what you will learn You do not necessarily need to complete the tutorials within the book in order but make sure that you have the pre requisite knowledge before you begin Practice modeling problems and or quiz problems at the end of each chapter offer an extra challenge and let you practice your newfound skills Working with realistic part models and assemblies means that questions and problems might arise as they would when you are working on your real life projects The author anticipates these questions and how to address them For example if you are in the wrong standard or not on the correct layer or an unexpected window appears on the screen tips and notes quickly remedy the issue Work alongside the author using the instructional videos included for every tutorial and end of chapter problems in the book Information on new commands or steps appear at the beginning of each chapter They include definitions of new features and concepts and images of how they look on the screen Everything is clearly labeled for easy identification Throughout the book readers are referred to the appropriate section of the chapter for more information on the command when needed A command index at the back of the book lists where each command can be found for easy reference at any time Practice Exam Included with your purchase of this book is a complete timed and graded Certified SOLIDWORKS Associate CSWA practice exam The practice exam is meant to simulate the actual CSWA exam It can be downloaded and run from any computer and it will get you familiar with the official exam and check your skills prior to taking the official exam The practice exam software requires you to use SOLIDWORKS to perform actions in order to formulate the answer to questions just like the actual exam **A Hands-On Introduction to SOLIDWORKS 2022** Kirstie Plantenberg,2022-03 SOLIDWORKS is the industry standard in 3D parametric modeling software making it an essential tool for anyone going into a wide variety of engineering and design industries Specifically written for those who are new to SOLIDWORKS A Hands On Introduction to SOLIDWORKS 2022 allows you to relax and learn as you follow an expert in SOLIDWORKS through the basics of the software to its more in depth capabilities Formerly called Project Based SOLIDWORKS this revised edition includes new and expanded tutorials This book works perfectly for a freshman design class or as a companion text to an engineering graphics textbook Each tutorial in the book teaches you how to use engineering graphics concepts while modeling real world parts and assemblies Learn how to model parts configurations create part prints and assembly drawings As you become more comfortable with SOLIDWORKS later chapters introduce FEA how to create more complex solid geometries with parametric modeling apply tolerances and use advanced and mechanical mates Important commands and features are highlighted and defined in each chapter to help you become familiar with them Instructional videos for all the tutorials and the end of chapter problems come with the book so if you need more help or are a visual learner you can refer to them Some problems are purposely left open ended to simulate real life design situations therefore more than one solution is possible After completing all the tutorials in this book you will be able to accurately design moderately difficult parts and assemblies and have a firm foundation in SOLIDWORKS Why this book Instructors and learners will appreciate the thoughtful and well organized layout of A Hands On Introduction to

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Simulation Covers fluid mechanics fluid flow and heat transfer simulations Results are compared to analytical solutions and empirical data This edition features a new chapter on Flow in a Rotating Plane Channel An Introduction to SOLIDWORKS Flow Simulation 2025 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 twenty 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 compressible flow flow meters heat exchanger natural and forced convection pipe flow rotating flow tube bank flow and valve flow Covers these features of SOLIDWORKS Flow Simulation 2025 Animations Automatic and Manual Meshing Boundary Conditions Calculation Control Options External and Internal Flow Free Surfaces Goals Free Surfaces Laminar and Turbulent Flow Physical Features Result Visualizations Two and Three Dimensional Flow Velocity Thermodynamic and Turbulence Parameters Wall Thermal Conditions **An Introduction to SOLIDWORKS Flow Simulation 2022** John E. Matsson,2022 Step by step tutorials cover the creation of parts setup and calculations with SOLIDWORKS Flow Simulation Covers fluid mechanics fluid flow and heat transfer simulations Results are compared to analytical solutions and empirical data This edition features a new chapter on Savonius Wind Turbines An Introduction to SOLIDWORKS Flow Simulation 2022 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 Covers these feature of SOLIDWORKS Flow Simulation 2022 Animations Automatic and Manual Meshing Boundary Conditions Calculation Control Options External and Internal Flow Goals Laminar and Turbulent Flow Physical

Features Result Visualizations Two and Three Dimensional Flow Velocity Thermodynamic and Turbulence Parameters Wall Thermal Conditions Free Surfaces **An Introduction to SOLIDWORKS Flow Simulation 2023** John Matsson,2023-09-08 Step by step tutorials cover the creation of parts setup and calculations with SOLIDWORKS Flow Simulation Covers fluid mechanics fluid flow and heat transfer simulations Results are compared to analytical solutions and empirical data This edition features a new chapter covering Supersonic Flow Over a Cone An Introduction to SOLIDWORKS Flow Simulation 2023 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 eighteen 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 compressible flow flow meters heat exchanger natural and forced convection pipe flow rotating flow tube bank flow and valve flow Covers these features of SOLIDWORKS Flow Simulation 2023 Animations Automatic and Manual Meshing Boundary Conditions Calculation Control Options External and Internal Flow Free Surfaces Goals Free Surfaces Laminar and Turbulent Flow Physical Features Result Visualizations Two and Three Dimensional Flow Velocity Thermodynamic and Turbulence Parameters Wall Thermal Conditions **An Introduction to SOLIDWORKS Flow Simulation 2021** John Matsson,2021-04 An Introduction to SOLIDWORKS Flow Simulation 2021 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 Covers these feature of SOLIDWORKS Flow Simulation 2021 Animations Automatic and Manual Meshing Boundary Conditions Calculation Control Options External and Internal Flow

Goals Laminar and Turbulent Flow Physical Features Result Visualizations Two and Three Dimensional Flow Velocity Thermodynamic and Turbulence Parameters Wall Thermal Conditions Free Surfaces **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 **An Introduction to SOLIDWORKS Flow Simulation 2020** John Matsson,2020-03-17 An Introduction to SOLIDWORKS Flow Simulation 2020 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 *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

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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 2016 Tutorial with Video Instruction* David Planchard,2016-01-11 SOLIDWORKS 2016 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 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 2017 Tutorial with Video Instruction** David Planchard,2017 SOLIDWORKS 2017 Tutorial with video instruction is written to assist

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