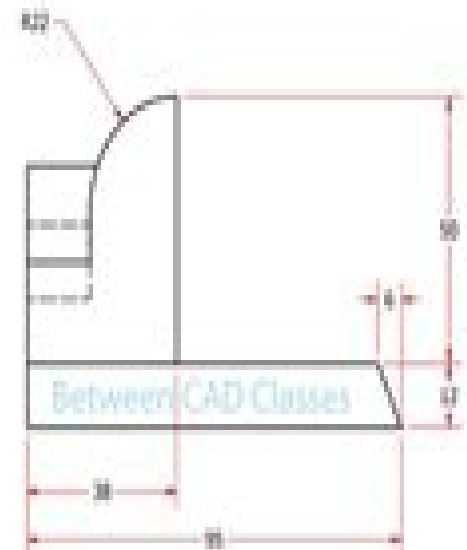
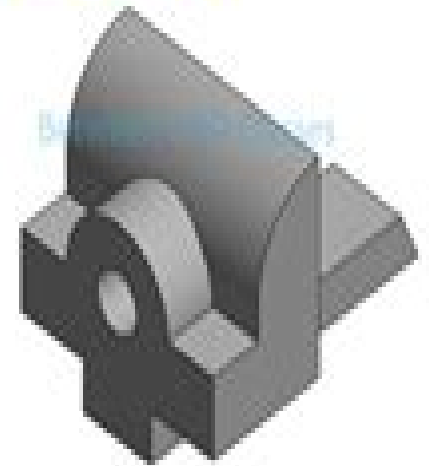




Autodesk Inventor

Part Modeling Tutorial #2

Between CAD Classes



Autodesk Inventor Solid Model Tutorial

Randy Shih



Autodesk Inventor Solid Model Tutorial:

Parametric Modeling with Autodesk Inventor 2020 Randy Shih, 2019-06 Parametric Modeling with Autodesk Inventor 2020 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling. It uses a hands on exercise intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs to creating multi view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design, reuse, collision and contact stress analysis, 3D printing, and the Autodesk Inventor 2020 Certified User Examination. Autodesk Inventor 2020 Certified User Examination. The content of Parametric Modeling with Autodesk Inventor 2020 covers the performance tasks that have been identified by Autodesk as being included on the Autodesk Inventor 2020 Certified User examination. Special reference guides show students where the performance tasks are covered in the book. **Parametric Modeling with Autodesk Inventor 2024** Randy Shih, 2023-08-16 Designed specifically for beginners with no prior CAD experience. Uses a hands on exercise intensive tutorial style approach. Comes with extensive video instruction. Covers parametric modeling, 3D Modeling, 3D printing, and the Autodesk Inventor Certified User Exam. Contains a chapter introducing you to stress analysis. Parametric Modeling with Autodesk Inventor 2024 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling. It uses a hands on exercise intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs to creating multi view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design, reuse, collision and contact stress analysis, 3D printing, and the Autodesk Inventor 2024 Certified User Examination. Video Training Included with every new copy of this book is access to extensive video training. There are forty seven videos that total nearly six hours of training in total. This video training parallels the exercises found in the text. However the videos do more than just provide you with click by click instructions. Author Luke Jumper also includes a brief discussion of each tool as well as rich insight into why and how the tools are used. Luke isn't just telling you what to do, he's showing and explaining to you how to go through the exercises while providing clear descriptions of the entire process. It's like having him there guiding you through the book. These videos will provide you with a wealth of information and bring the text to life. They are also an invaluable resource for people who learn best through a visual experience. These videos deliver a comprehensive overview of the tools found in Autodesk Inventor and perfectly complement and reinforce the exercises in the book. **Autodesk Inventor 2020 A Tutorial Introduction** L. Scott Hansen, 2019-03 This unique text and video set presents a thorough introduction to Autodesk Inventor for anyone with little or no prior experience with CAD software. It can be used in virtually any setting from four year engineering schools to on the job use or self study. Unlike other books of its kind it begins at a very basic level and ends at a very advanced level. It's

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Autodesk Inventor 2025 L. Scott Hansen, 2024-06-21

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Autodesk Inventor 2026: A Tutorial Introduction L. Scott Hansen, Designed for anyone who wants to learn Autodesk Inventor Absolutely no previous experience with CAD is required Uses a learn by doing approach Starts at a basic level and guides you to an advanced user level Includes extensive video instruction This unique text and video set presents a thorough introduction to Autodesk Inventor for anyone with little or no prior experience with CAD software It can be used in virtually any setting from four year engineering schools to on the job use or self study Unlike other books of its kind it begins at a very basic level and ends at a very advanced level It s perfect for anyone interested in learning Autodesk Inventor quickly and effectively using a learning by doing approach Additionally the extensive videos that are included with this book make it easier than ever to learn Inventor by clearly demonstrating how to use its tools The philosophy behind this book is that learning computer aided design programs is best accomplished by emphasizing the application of the tools Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software program The driving force behind this book is learning by doing The instructional format of this book centers on making sure that students learn by doing and that students can learn from this book on their own In fact this is one thing that differentiates this book from others the emphasis on being able to use the book for self study The presentation of Autodesk Inventor is structured so that no previous knowledge of any CAD program is required This book uses the philosophy that Inventor is mastered best by concentrating on applying the program to create different types of solid models starting simply and then using the power of the program to progressively create more complex solid models The Drawing Activities at the end of each chapter are more complex iterations of the part developed by each chapter s objectives Since CAD programs are highly visual there are graphical illustrations showing how to use the program This reinforces the learn by doing philosophy since a student can see exactly what the program shows and then step through progressive commands to implement the required operations Rather than using a verbal description of the command a screen capture of each command is replicated Included Videos Each book includes access to extensive video training created by author Scott Hansen The videos follow along with the table of contents of the book Each chapter has one or more videos in which the author demonstrates how to use the tools that are covered in that chapter Most videos follow an exercise from start to finish The exercises created in the video are very similar to the exercise found in the corresponding chapter Throughout the videos Scott Hansen describes how to perform each step the reason behind these steps and some of the other options available with the various tools The author s clear and simple description of each exercise is a perfect companion to the text and makes learning Autodesk Inventor easier than ever There are thirty four videos with four hours and thirty nine minutes of training in total

Autodesk Inventor 2024 L. Scott Hansen, 2023-06-12 Designed for anyone who wants to learn Autodesk Inventor Absolutely no previous experience with CAD is required Uses a learn by doing approach Starts at a basic

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Parametric Modeling with Autodesk

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Parametric Modeling with Autodesk Inventor 2021 Randy Shih, Luke Jumper, 2020-07 Parametric Modeling with Autodesk Inventor 2021 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling. It uses a hands on exercise intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs to creating multi view drawings and assembly models. Other featured topics include sheet metal design motion analysis 2D design reuse collision and contact stress analysis 3D printing and the Autodesk Inventor 2021 Certified User Examination. Video Training Included with every new copy of this book is access to extensive video training. The video training parallels the exercises found in the text and are designed to be watched first before following the instructions in the book. However the videos do more than just provide you with click by click instructions. Author Luke Jumper also includes a brief discussion of each tool as well as rich insight into why and how the tools are used. Luke isn't just telling you what to do he's showing and explaining to you how to go through the exercises while providing clear descriptions of the entire process. It's like having him there guiding you through the book. These videos will provide you with a wealth of information and brings the text to life. They are also an invaluable resource for people who learn best through a visual experience. These videos deliver a comprehensive overview of the tools found in Autodesk Inventor and perfectly complement and reinforce the exercises in the book. Autodesk Inventor 2021 Certified User Examination The content of Parametric Modeling with Autodesk Inventor 2021 covers the performance tasks that have been identified by Autodesk as being included on the Autodesk Inventor 2021 Certified User examination. Special reference guides show students where the performance tasks are covered in the book.

Autodesk Inventor 2020: Introduction to Solid

Modeling (Mixed Units) - Part 1 ASCENT - Center for Technical Knowledge,2019-03-26 Note This book is continued in Autodesk R Inventor R 2020 Introduction to Solid Modeling Part 2 The Autodesk R Inventor R 2020 Introduction to Solid Modeling guide provides you with an understanding of the parametric design philosophy through a hands on practice intensive curriculum You will learn the key skills and knowledge required to design models using Autodesk Inventor starting with conceptual sketching through to solid modeling assembly design and drawing production Topics Covered Understanding the Autodesk Inventor software interface Creating constraining and dimensioning 2D sketches Creating and editing the solid base 3D feature from a sketch Creating and editing secondary solid features that are sketched and placed Creating equations and working with parameters Manipulating the display of the model Resolving feature failures Duplicating geometry in the model Placing and constraining connecting parts in assemblies Manipulating the display of components in an assembly Obtaining model measurements and property information Creating Presentation files Exploded views Modifying and analyzing the components in an assembly Simulating motion in an assembly Creating parts and features in assemblies Creating and editing an assembly Bill of Materials Working with projects Creating and annotating drawings and views Customizing the Autodesk Inventor environment Prerequisites Access to the 2020 version of the software The practices and files included with this guide might not be compatible with prior versions As an introductory guide Autodesk R Inventor R 2020 Introduction to Solid Modeling does not assume prior knowledge of any 3D modeling or CAD software You need to be experienced with the Windows operating system and having a background in drafting of 3D parts is recommended

Autodesk Inventor 2023: A Tutorial Introduction L. Scott Hansen,2022-05 This unique text and video set presents a thorough introduction to Autodesk Inventor for anyone with little or no prior experience with CAD software It can be used in virtually any setting from four year engineering schools to on the job use or self study Unlike other books of its kind it begins at a very basic level and ends at a very advanced level It s perfect for anyone interested in learning Autodesk Inventor quickly and effectively using a learning by doing approach Additionally the extensive videos that are included with this book make it easier than ever to learn Inventor by clearly demonstrating how to use its tools The philosophy behind this book is that learning computer aided design programs is best accomplished by emphasizing the application of the tools Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software program The driving force behind this book is learning by doing The instructional format of this book centers on making sure that students learn by doing and that students can learn from this book on their own In fact this is one thing that differentiates this book from others the emphasis on being able to use the book for self study The presentation of Autodesk Inventor is structured so that no previous knowledge of any CAD program is required This book uses the philosophy that Inventor is mastered best by concentrating on applying the program to create different types of solid models starting simply and then using the power of the program to progressively create more complex solid models The Drawing Activities at the

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Autodesk Inventor 2020: Introduction to Solid Modeling (Mixed Units) - Part 2 ASCENT - Center for Technical Knowledge, 2019-03-26. Note: This book is a continuation of Autodesk R Inventor R 2020 Introduction to Solid Modeling Part 1. The Autodesk R Inventor R 2020 Introduction to Solid Modeling guide provides you with an understanding of the parametric design philosophy through a hands-on practice-intensive curriculum. You will learn the key skills and knowledge required to design models using Autodesk Inventor, starting with conceptual sketching through to solid modeling, assembly design, and drawing production. Topics Covered: Understanding the Autodesk Inventor software interface; Creating, constraining, and dimensioning 2D sketches; Creating and editing the solid base 3D feature from a sketch; Creating and editing secondary solid features that are sketched and placed; Creating equations and working with parameters; Manipulating the display of the model; Resolving feature failures; Duplicating geometry in the model; Placing and constraining connecting parts in assemblies; Manipulating the display of components in an assembly; Obtaining model measurements and property information; Creating Presentation files; Exploded views; Modifying and analyzing the components in an assembly; Simulating motion in an assembly; Creating parts and features in assemblies; Creating and editing an assembly Bill of Materials; Working with projects; Creating and annotating drawings and views; Customizing the Autodesk Inventor environment. Prerequisites: Access to the 2020 version of the software. The practices and files included with this guide might not be compatible with prior versions. As an introductory guide, Autodesk R Inventor R 2020 Introduction to Solid Modeling does not assume prior knowledge of any 3D modeling or CAD software. You need to be experienced with the Windows operating system and having a background in drafting of 3D parts is recommended.

Learning Autodesk Inventor 2024 Randy Shih, 2023. Teaches

beginners how to use Autodesk Inventor with easy to understand tutorials Features a simple robot design used as a project throughout the book Covers modeling gear creation linkage analysis assemblies simulations and 3D animation Available with an optional robot kit This book will teach you everything you need to know to start using Autodesk Inventor 2024 with easy to understand step by step tutorials This book features a simple robot design used as a project throughout the book You will learn to model parts create assemblies run simulations and even create animations of your robot design An unassembled version of the same robot used throughout the book can be bundled with the book No previous experience with Computer Aided Design CAD is needed since this book starts at an introductory level The author begins by getting you familiar with the Inventor interface and its basic tools You will start by learning to model simple robot parts and before long you will graduate to creating more complex parts and multi view drawings Along the way you will learn the fundamentals of parametric modeling through the use of geometric constraints and relationships You will also become familiar with many of Inventor s powerful tools and commands that enable you to easily construct complex features in your models Also included is coverage of gears gear trains and spur gear creation using Autodesk Inventor This book continues by examining the different mechanisms commonly used in walking robots You will learn the basic types of planar four bar linkages commonly used in mechanical designs and how to use the GeoGebra Dynamic Geometry software to simulate and analyze 2D linkages Using the knowledge you gained about linkages and mechanism you will learn how to modify your robot and change its behavior by modifying or creating new parts In the final chapter of this book you learn how to combine all the robot parts into assemblies and then run motion analysis You will finish off your project by creating 3D animations of your robot in action There are many books that show you how to perform individual tasks with Autodesk Inventor but this book takes you through an entire project and shows you the complete engineering process By the end of this book you will have modeled and assembled nearly all the parts that make up the TAMIYA Mechanical Tiger and can start building your own robot **Autodesk Inventor**

2014 Scott Hansen,2013-04 This unique text presents a thorough introduction to Autodesk Inventor for anyone with little or no prior experience with CAD software It can be used in virtually any setting from four year engineering schools to on the job use or self study Unlike other books of its kind it begins at a very basic level and ends at a very advanced level It s perfect for anyone interested in learning Autodesk Inventor quickly and effectively using a learning by doing approach The philosophy behind this book is that learning computer aided design programs is best accomplished by emphasizing the application of the tools Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software program The driving force behind this book is learning by doing The instructional format of this book centers on making sure that students learn by doing and that students can learn from this book on their own In fact this is one thing that differentiates this book from others the emphasis on being able to use the book for self study The presentation of Autodesk Inventor is structured so that no previous knowledge of any CAD program is required This book uses the

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