

## Autodesk Inventor

# Part Modeling Tutorial

Between CAD Classes







### **Autodesk Inventor Part Modeling**

ASCENT - Center for Technical Knowledge

#### **Autodesk Inventor Part Modeling:**

Autodesk Inventor 2022 For Beginners Tutorial Books, 2021-07-26 This book is a combination of focused discussions real world examples and practice exercises This will help you learn the latest version of Autodesk Inventor quickly and easily It is well organized so that you can learn and implement the software The tutorials at the end of each chapter will allow you to jump right and start using the important features of the software The interesting examples used in tutorials will show how the software is used in the design process With all the basic topics of part modeling assembly modeling and drawings this book is a good companion Table of Contents 1 Getting Started with Autodesk Inventor 2 Sketch Techniques 3 Extrude and Revolve Features 4 Placed Features 5 Patterned Geometry 6 Sweep Features 7 Loft Features 8 Additional Features and Multibody Parts 9 Modifying Parts 10 Assemblies 11 Drawings 12 Surface Design **Autodesk Inventor 2022: Advanced** Assembly Modeling (Mixed Units): Autodesk Authorized Publisher Ascent - Center for Technical Knowledge, 2021-06-18 The Autodesk R Inventor R 2022 Advanced Assembly Modeling guide builds on the skills acquired in the Autodesk Inventor 2022 Introduction to Solid Modeling and Autodesk Inventor 2022 Advanced Part Modeling guides to take you to a higher level of productivity when creating and working with assemblies You begin by focusing on the Top Down Design workflow You learn how tools are used to achieve this workflow using Derive Multi Body Design and Layouts Other topics include model simplification tools positional representations model states iMates and iAssemblies Frame Generator Design Accelerator and file management and duplication techniques A chapter has also been included about the Autodesk R Inventor R Studio to teach you how to render produce and animate realistic images Topics Covered Applying motion to existing assembly constraints using Motion and Transitional constraints Introduction of the Top Down Design technique for creating assemblies and their components Tools for Top Down Design such as associative links adaptive parts multi body and layout design derived components and skeleton models Creating positional representations to review motion evaluate the position of assembly components or document an assembly in a drawing Using the model simplification tools to create simplified part models and views of assembly designs Creating model states and iAssemblies to create customizable versions of assembly designs Creating rendered realistic images and animations of parts and assemblies using Autodesk Inventor Studio and the Video Producer Using the Design Accelerator and Frame Generator to easily insert standard and customizable components and features into your model Efficiently duplicating components in an assembly Adding welds and weld symbols to weldment assemblies Prerequisites Access to the 2022 0 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e g 2021 The class assumes mastery of Autodesk Inventor basics as taught in Autodesk Inventor Introduction to Solid Modeling In addition Autodesk Inventor Advanced Part Modeling knowledge is recommended The use of Microsoft R Excel is required for this training course 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 2020: Advanced Part Modeling (Mixed Units) ASCENT - Center for Technical Knowledge, 2019-07-11 Autodesk R Inventor R 2020 Advanced Part Modeling is the second in a series of guides on the Autodesk R Inventor R software that is published by ASCENT The goal of this guide is to build on the skills acquired in the Autodesk Inventor Introduction to Solid Modeling learning guide by taking users to a higher level of productivity when designing part models using the Autodesk Inventor software In this guide the user considers various approaches to part design Specific advanced part modeling techniques covered include multi body design advanced lofts advanced sweeps coils generative shape design surface modeling and Freeform modeling Material aimed at increasing efficiency includes iFeatures for frequently used design elements iParts for similar designs and how to work with imported data The guide also covers some miscellaneous drawing tools such as custom sketches symbols working with title blocks and borders and documenting iParts Topics Covered Advanced model appearance options 2D and 3D sketching techniques Multi body part modeling

Advanced geometry creation tools work features area lofts sweeps and coils Analysis tools Generative shape design using Shape Generator Creating and editing basic surfaces importing surfaces and surface repair tools iFeatures and iParts Importing data from other CAD systems and making edits Working with AutoCAD DWG files Freeform modeling Emboss and Decal features Advanced Drawing tools iPart tables surfaces in drawing views and custom sketched symbols Adding notes with the Engineer's Notebook Prerequisites Access to the 2020 0 version of the software or later The practices and files included with this guide are not compatible with prior versions Future software updates that are released by Autodesk may include changes that will not be reflected in this guide The material assumes a mastery of Autodesk Inventor basics as taught in Autodesk R Inventor R Introduction to Solid Modeling Users should know how to create and edit parts use work features create and annotate drawing views etc The use of Microsoft Excel is required for this guide Autodesk Inventor 2020 Basics Tutorial Tutorial Books, 2019-06-20 A step by step tutorial on Autodesk Inventor basics Autodesk Inventor is used by design professionals for 3D modeling generating 2D drawings finite element analysis mold design and other purposes This tutorial is aimed at novice users of Inventor and gives you all the basic information you need so you can get the essential skills to work in Autodesk Inventor immediately This book will get you started with the basics of part modeling assembly modeling presentations and drawings Next it teaches you some intermediate level topics such as additional part modeling tools sheet metal modeling top down assembly feature assembly joints dimension annotations and model based dimensioning Brief explanations practical examples and stepwise instructions make this tutorial complete **Autodesk Inventor 2020** For Beginners Tutorial Books, 2019-07-08 This book is a combination of focused discussions real world examples and practice exercises This will help you learn the latest version of Autodesk Inventor quickly and easily It is well organized so that you can learn and implement the software The tutorials at the end of each chapter will allow you to jump right and start using the important features of the software The interesting examples used in tutorials will show how the software is used in the design process With all the basic topics of part modeling assembly modeling and drawings this book is a good companion

Autodesk Inventor 2022: A Power Guide for Beginners and Intermediate Users Sandeep Dogra, 2021-08-13 Autodesk Inventor 2022 A Power Guide for Beginners and Intermediate Users textbook has been designed for instructor led courses as well as self paced learning It is intended to help engineers and designers interested in learning Autodesk Inventor to create 3D mechanical designs This textbook is an excellent guide for new Inventor users and a great teaching aid for classroom training It consists of 14 chapters and a total of 790 pages covering major environments of Autodesk Inventor such as Sketching environment Part modeling environment Assembly environment Presentation environment and Drawing environment The textbook teaches you to use Autodesk Inventor mechanical design software for building parametric 3D solid components and assemblies as well as creating animations and 2D drawings This textbook not only focuses on the usages of the tools commands of Autodesk Inventor but also on the concept of design Every chapter in this textbook contains Tutorials

that provide users with step by step instructions for creating mechanical designs and drawings with ease Moreover every chapter ends with Hands on Test Drives that allow users to experience for themselves the user friendly and powerful capacities of Autodesk Inventor Autodesk Inventor 2019 for Beginners - Part 1 Tutorial Books, 2018-09-21 This book is a combination of focused discussions real world examples and practice exercises This will help you learn the latest version of Autodesk Inventor quickly and easily This book is well organized so that you can learn and implement the software The tutorials at the end of each chapter will allow you to jump right and start using the important features of the software The interesting examples used in tutorials will show how the software is used in the design process With all the basic topics of part modeling this book is a good companion Table of Contents 1 Getting Started with Autodesk Inventor 2 Sketch Techniques 3 Extrude and Revolve Features 4 Placed Features 5 Patterned Geometry 6 Sweep Features 7 Loft Features 8 Additional Features and Multibody Parts 9 Modifying Parts Autodesk Inventor 2022: Advanced Part Modeling (Mixed Units) ASCENT - Center for Technical Knowledge, 2021-05-27 **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 Learn Autodesk Inventor 2018 Basics T. Kishore, 2017-11-20 Get started with the basics of part modeling assembly modeling presentations and drawings in this step by step tutorial on Autodesk Inventor fundamentals Next this book teaches you some intermediate level topics such as additional part modeling tools sheet metal modeling top down assembly features assembly

joints and dimension and annotations Engaging explanations practical examples and step by step instructions make this tutorial book complete Once you have read Learn Autodesk Inventor 2018 Basics you will be able to use Autodesk Inventor for 3D modeling 2D drawings finite element analysis mold design and other purposes just like a design professional You will gain all the basic information and essential skills you need to work in Autodesk Inventor immediately What You ll Learn Carry out virtual 3D modeling for your next 3D printing projects Design molds for 3D printing and other projects Generate 2D drawings Who This Book Is For Novice users of Autodesk Inventor Using Autodesk Inventor 6 Ron Cheng, 2003 This book CD ROM tutorial features numerous examples that relate directly to real world product design After chapters on concepts of computer modeling and the functions of Inventor tutorial chapters cover solid part modeling sheet metal modeling assembly modeling and assembly presentation featuring step by step instructions as well as objectives overviews summaries and review questions The CD ROM contains data files for exercises Cheng teaches at The Industrial Center at Autodesk Inventor 2022 Hong Kong Polytechnic University Annotation c 2003 Book News Inc Portland OR booknews com Essentials Plus Daniel Banach, Travis Jones, Shawna Lockhart, 2021-06 Autodesk Inventor 2022 Essentials Plus provides the foundation for a hands on course that covers basic and advanced Autodesk Inventor features used to create edit document and print parts and assemblies You learn about part and assembly modeling through real world exercises Autodesk Inventor 2022 Essentials Plus demonstrates critical CAD concepts from basic sketching and modeling through advanced modeling techniques as it equips you with the skills to master this powerful professional tool The book walks you through every component of the software including the user interface toolbars dialogue boxes sketch tools drawing views assembly modeling and more Its unique modular organization puts key information at your fingertips while step by step tutorials make it an ideal resource for self learning Packed with vivid illustrations and practical exercises that emphasize modern day applications Autodesk Inventor 2022 Essentials Plus will prepare you for work in the real world Each chapter is organized into four sections Objectives which describe the content and learning objectives topic coverage which presents a concise review of the topic exercises which present the workflow for a specific command or process through illustrated step by step instructions and finally a checking your skills section which tests your understanding of the material Who Should Use this Manual This manual is designed to be used in instructor led courses although you may also find it helpful as a self paced learning tool It is recommended that you have a working knowledge of Microsoft Windows as well as a working knowledge of mechanical design principles <u>Autodesk Inventor 2021 Basics Tutorial</u> Tutorial Books, 2020-10-15 A step by step tutorial on Autodesk Inventor basics Autodesk Inventor is used by design professionals for 3D modeling generating 2D drawings finite element analysis mold design and other purposes This tutorial is aimed at novice users of Inventor and gives you all the basic information you need so you can get the essential skills to work in Autodesk Inventor immediately This book will get you started with the basics of part modeling assembly modeling presentations and drawings Next it teaches you some

intermediate level topics such as additional part modeling tools sheet metal modeling top down assembly feature assembly joints dimension annotations model based dimensioning frame generator Brief explanations practical examples and stepwise instructions make this tutorial complete **Autodesk Inventor 2021: Advanced Assembly Modeling (Mixed Units):** Autodesk Authorized Publisher ASCENT - Center for Technical Knowledge, 2020-05-11 The Autodesk R Inventor R 2021 Advanced Assembly Modeling guide builds on the skills acquired in the Autodesk Inventor 2021 Introduction to Solid Modeling and Autodesk Inventor 2021 Advanced Part Modeling guides to take you to a higher level of productivity when creating and working with assemblies You begin by focusing on the Top Down Design workflow You learn how tools are used to achieve this workflow using Derive Multi Body Design and Layouts Other topics include model simplification tools Positional and Level of Detail Representations iMates and iAssemblies Frame Generator Design Accelerator and file management and duplication techniques A chapter has also been included about the Autodesk R Inventor R Studio to teach you how to render produce and animate realistic images Topics Covered Applying motion to existing assembly constraints using Motion and Transitional Constraints Introduction of the Top Down Design technique for creating assemblies and its components Tools for Top Down Design such as associative links adaptive parts multi body and layout design derived components and skeleton models Creating Positional Representations to review motion evaluate the position of assembly components or document an assembly in a drawing Using Shrinkwrap and other model simplification tools to create a part model that represents an overall assembly Creating Level of Detail Representations to reduce the clutter of large assemblies reduce retrieval times and substituting models Using the Design Accelerator to easily insert standard and customizable components and features into your model Creating rendered realistic images and animations of parts and assemblies using Autodesk Inventor Studio and the Video Producer Prerequisites Access to the 2021 0 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e g 2020 The class assumes mastery of Autodesk Inventor basics as taught in Autodesk R Inventor R Introduction to Solid Modeling In addition Autodesk R Inventor R Advanced Part Modeling knowledge is recommended The use of Microsoft R Excel is required Autodesk Inventor 2026: A Power Guide for Beginners and Intermediate Users Sandeep for this training course Dogra, John Willis, 2025-09-11 Autodesk Inventor 2026 A Power Guide for Beginners and Intermediate Users has been designed for both instructor led courses and self paced learning This textbook aims to assist engineers and designers interested in learning Autodesk Inventor to create 3D mechanical designs It is an excellent guide for new Inventor users and a valuable teaching aid for classroom training The textbook consists of 14 chapters and a total of 794 pages covering major environments of Autodesk Inventor such as the Sketching environment Part modeling environment Assembly environment Presentation environment and Drawing environment It teaches you how to use Autodesk Inventor mechanical design

software to build parametric 3D solid components and assemblies as well as create animations and 2D drawings This textbook not only focuses on the usage of the tools and commands of Autodesk Inventor but also on the concept of design Each chapter contains tutorials that provide step by step instructions for creating mechanical designs and drawings with ease Additionally every chapter ends with hands on test drives that allow users to experience the user friendly and powerful technical capabilities of Autodesk Inventor Who Should Read This Book This textbook is written to benefit a wide range of Autodesk Inventor users varying from beginners to advanced users as well as Autodesk Inventor instructors The easy to follow chapters of this textbook allow easy comprehension of different design techniques Autodesk Inventor tools and design principles Downloadable Resources Students and faculty can download all models parts tutorials and hands on exercises used throughout the textbook providing access to practical resources for deeper learning Interactive Learning Support Key tutorial steps are accompanied by QR codes that link to video demonstrations helping users through challenging stages of the learning process Key Features Comprehensive Tool Coverage In depth exploration of Autodesk Inventor tools and commands Step by Step Tutorials Real world projects and detailed instructions Hands On Test Drives Exercises at the end of each chapter to reinforce learning Additional Tips and Notes Useful insights and shortcuts for efficient design Customized Faculty Content PowerPoint presentations and additional projects Free Resources Access to downloadable materials for both students and faculty Technical Support Direct support for users via email info cadartifex com Contents at a Glance Chapter 1 Introduction to Autodesk Inventor Chapter 2 Drawing Sketches with Autodesk Inventor Chapter 3 Editing and Modifying Sketches Chapter 4 Applying Constraints and Dimensions Chapter 5 Creating Base Features of Solid Models Chapter 6 Creating Work Features Chapter 7 Advanced Modeling I Chapter 8 Advanced Modeling II Chapter 9 Patterning and Mirroring Chapter 10 Advanced Modeling III Chapter 11 Working with Assemblies I Chapter 12 Working with Assemblies II Chapter 13 Creating Animation and Exploded Views Chapter 14 Working with Drawings This guide provides all the tools necessary for mastering Autodesk Inventor and applies to a range of users from newcomers to seasoned professionals helping them excel in 3D mechanical design and 2D drafting Autodesk Inventor 2025: A Power Guide for Beginners and Intermediate Users Sandeep Dogra, 2024-06-26 Autodesk Inventor 2025 A Power Guide for Beginners and Intermediate Users has been designed for both instructor led courses and self paced learning This textbook aims to assist engineers and designers interested in learning Autodesk Inventor to create 3D mechanical designs It is an excellent guide for new Inventor users and a valuable teaching aid for classroom training The textbook consists of 14 chapters and a total of 794 pages covering major environments of Autodesk Inventor such as the Sketching environment Part modeling environment Assembly environment Presentation environment and Drawing environment It teaches you how to use Autodesk Inventor mechanical design software to build parametric 3D solid components and assemblies as well as create animations and 2D drawings This textbook not only focuses on the usage of the tools and commands of Autodesk Inventor but also on the concept of design

Each chapter contains tutorials that provide step by step instructions for creating mechanical designs and drawings with ease Additionally every chapter ends with hands on test drives that allow users to experience the user friendly and powerful technical capabilities of Autodesk Inventor Table of Contents Chapter 1 Introduction to Autodesk Inventor Chapter 2 Drawing Sketches with Autodesk Inventor Chapter 3 Editing and Modifying Sketches Chapter 4 Applying Constraints and Dimensions Chapter 5 Creating Base Features of Solid Models Chapter 6 Creating Work Features Chapter 7 Advanced Modeling I Chapter 8 Advanced Modeling II Chapter 9 Patterning and Mirroring Chapter 10 Advanced Modeling III Chapter 11 Working with Assemblies I Chapter 12 Working with Assemblies II Chapter 13 Creating Animation and Exploded Views Chapter 14 Working with Drawings Learning Autodesk Inventor 2022 Randy Shih, 2021-08 This book will teach you everything you need to know to start using Autodesk Inventor 2022 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

400+ Interview Questions & Answers For 3D Parts Modeling Specialist Role CloudRoar Consulting Services, 2025-08-15 This guide includes 400 questions and answers for 3D Parts Modeling Specialist interviews Topics cover parametric modeling assembly creation rendering optimization and workflow integration Each answer demonstrates technical proficiency creative problem solving and collaboration Behavioral and portfolio tips help candidates impress interviewers for roles in engineering manufacturing and product design

Introducing Autodesk Inventor 2009 and Autodesk Inventor LT 2009 Thom Tremblay,2008-09-08 Written by an Autodesk Inventor expert Introducing Autodesk Inventor 2009 and Autodesk Investor LT 2009 is a beginner level reference guide to this market leading 3D mechanical design software Look more closely at the Inventor interface learn the basics of drawing 2D and 3D capabilities explore part modeling features and discover sophisticated techniques for working with large and small assemblies Understand the software in the context of real world tasks and workflows and become familiar with topics like standards styles project management and communication sheet metal tools and creating presentations For Instructors Teaching supplements are available for this title

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