

Introduction to the Tutorial

This tutorial shows you how to create a 3D model of a mechanical part using Autodesk Inventor. It covers the following topics:

- Creating a new part file.
- Sketching the base of the part.
- Extruding the base to create the 3D model.

Creating the Base of the Part

In this tutorial, you will create the base of the part. The base is a rectangular block with a circular hole in the center. To create the base, you will use the **Sketch** environment to create a 2D sketch of the base, and then use the **Extrude** command to create the 3D model.

**Creating the Base of the Part**

In this tutorial, you will create the base of the part. The base is a rectangular block with a circular hole in the center. To create the base, you will use the **Sketch** environment to create a 2D sketch of the base, and then use the **Extrude** command to create the 3D model.



After creating the base of the part, you will create the top of the part. The top is a rectangular block with a circular hole in the center. To create the top, you will use the **Sketch** environment to create a 2D sketch of the top, and then use the **Extrude** command to create the 3D model.

Creating the Top of the Part**Creating the Top of the Part**

In this tutorial, you will create the top of the part. The top is a rectangular block with a circular hole in the center. To create the top, you will use the **Sketch** environment to create a 2D sketch of the top, and then use the **Extrude** command to create the 3D model.

Tutoriais Em Autodesk Inventor 2009

Wolfgang Häger, Dirk Bauermeister



Tutoriais Em Autodesk Inventor 2009:

Mastering Autodesk Inventor 2009 and Autodesk Inventor LT 2009 Curtis Waguespack, Sean Dotson, Bill Bogan, Andrew Faix, Seth Hindman, Loren Jahraus, Dennis Jeffrey, Shekar Subrahmanyam, Bob Van der Donck, 2008-10-03 The expert content in *Mastering Autodesk Inventor 2009 and Autodesk Inventor LT 2009* will help you learn advanced related to the industry leading 3D mechanical design software Coverage of subjects like design tactics for large assemblies effective model design for different industries strategies for effective data and asset sharing across teams using 2D and 3D data from other CAD systems and improving designs is thorough and comprehensive With straightforward explanations real world examples practical tutorials tips tricks and techniques this book will be your go to guide to Autodesk Inventor

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 Inventor 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

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 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 one videos with four hours and nineteen minutes of training in total To access the videos you will need to follow the instruction included on the inside front cover to redeem the access code included with each book Redeeming the code will add this book to your SDC Publications Library and allow you to access the videos whenever you want

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

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Tutorial Dasar Autodesk Inventor Bayu Pranoto, Hangga Wicaksono, dan Rifqi Ryandi Dwi A.,2021-11-19 Tuntutan kompetensi individu skill knowledge attitude khususnya di bidang gam bar dan desain mesin barang tentu telah menjadi kebutuhan yang melekat pada seorang Engineer Kebutuhan tersebut telah didukung secara masif oleh banyak aplikasi gambar CAD Computer Aided Design di era modern saat ini satu di antaranya adalah Autodesk Inventor Berdasarkan pada pengalaman penulis Autodesk Inventor merupakan salah satu yang banyak digunakan industri nasional di Indonesia Kemudahan navigasi dan variasi fitur gambar menjadi nilai tersendiri bagi aplikasi CAD tersebut dalam mengambil hati pengguna Melihat pasar dan minat pengguna yang besar tersebut penulis berinisiatif untuk membuat suatu bacaan yang sederhana dan dapat memudahkan pengguna dan peminat Autodesk Inventor dalam mengoperasikannya Buku ini memberikan tutorial pengoperasian Autodesk Inventor mulai dari part design assembly design hingga drawing Seperti layaknya rajawali yang baru belajar terbang dengan sayapnya penulis mengajak pembaca belajar menggunakan Autodesk Inventor dengan contoh penerapannya Salam hangat dari penulis untuk pembaca semoga dapat selalu berkarya bersama

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 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

Autodesk Inventor 2022 A Tutorial Introduction L. Scott Hansen, 2021-04 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 twenty seven videos with three hours and forty five minutes of training in total 3D-CAD mit Inventor 2009 Wolfgang Häger,Dirk Bauermeister,2009-09-30 Dieses Tutorial beschreibt sehr anschaulich und Schritt f r Schritt die Erzeugung eines Gesamtprojekts Schraubstock Dadurch l sst sich der Handlungsablauf zu jedem Zeitpunkt nachvollziehen Neben der reinen 3D Modellierung wird auch die Gestaltung von Pr sentationen und Animationen dargestellt und somit ein ganzheitlicher Ansatz realisiert Das Buch wendet sich an alle Einsteiger die sicher das Arbeiten mit diesem 3D CAD System erlernen m chten **Mastering Autodesk Inventor and Autodesk Inventor LT 2011** Curtis Waguespack,Thom Tremblay,2010-07-28 Expert authors Curtis Waguespack and Thom Tremblay developed this detailed reference and tutorial with straightforward explanations real world examples and practical tutorials that focus squarely on teaching Inventor tips tricks and techniques The authors extensive experience across industries and their Inventor expertise allows them to teach the software in the context of real world workflows and work environments They present topics that are poorly documented elsewhere such as design tactics for large assemblies effective model design for different industries strategies for effective data and asset sharing across teams using 2D and 3D data from other CAD systems and improving designs by incorporating engineering principles Mastering Inventor 2011 begins with an overview of Inventor design concepts and application before exploring all aspects of part design including sketching basic and advanced modeling techniques working with sheet metal and part editing The book then looks at assemblies and subassemblies explaining real world workflows and offering extensive detail on working with large assemblies Weldment design is detailed next before the reader is introduced to the functional design using Design Accelerators and Design Calculators The detailed documentation chapter then covers everything from presentation files to simple animations to documentation for exploded views sheet metal flat patterns and more The following chapters explore crucial productivity boosting tools data exchange the Frame Generator and the Inventor Studio visualization tools Finally the book explores Inventor Professional s dynamic simulation and stress analysis features as well as the routed systems features piping tubing cabling and harnesses Mastering Inventor s detailed discussions are reinforced with step by step tutorials and readers can compare their work to the downloadable before and after tutorial files It also features content to help readers pass the Inventor 2011 Certified Associate and Certified Professional exams and will feature instructor support materials appropriate for use in both the training and higher education channels Mastering Inventor is the ultimate resource for those who want to quickly become proficient with Autodesk s 3D manufacturing software and prepare for the Inventor certification exams Learning Autodesk Inventor 2010 Autodesk Official Training Guide,2009-11-16 Learn Autodesk Inventor 2010in this full color Official Training Guide This Official Training Guide from Autodesk is the perfect resource for beginners or professionals seeking training or preparing for certification in Autodesk s Inventor 3D mechanical design software With instruction provided by experts who helped create

the software the book thoroughly covers Inventor principles and fundamentals including 3D parametric part and assembly design digital prototyping and the creation of production ready drawings In eye popping full color the book includes pages of screen shots step by step instruction and real world examples that both instruct and inspire Takes you under the hood of Inventor 2010 Autodesk s 3D mechanical design software this book is an Autodesk Official Training Guide Offers Autodesk s own proven Inventor techniques workflows and content tailored to those developing their skills as well as professionals preparing for Inventor certification Teaches 3D parametric part and assembly design digital prototyping annotation dimensioning and drawing standards Demonstrates best practices for grouping parts into assemblies then editing manipulating and creating drawings Illustrates in full color with real world designs examples and screen shots Learn Autodesk Inventor 2010 and prepare for Inventor certification with this in depth guide [Mastering Autodesk Inventor 2020](#) Curtis Waguespack, Autodesk Inventor was introduced in 1999 as an ambitious 3D parametric modeler based not on the familiar AutoCAD programming architecture but instead on a separate foundation that would provide the room needed to grow into the fully featured modeler it now is almost a decade later Inventor 2009 marks a change of focus in the development of Inventor from an up and coming application to the current release with the inclusion of the design accelerator wizards and with refined core functions The maturity of the Inventor tools happily coincides with the advancement of the CAD market s adoption of 3D parametric modelers as a primary design tool And although it is important to understand that 2D CAD will likely never completely disappear from the majority of manufacturing design departments 3D design will increasingly become a requirement for most With this in mind we have set out to fill the following pages with detailed information on the specifics of the tools while addressing the principles of sound parametric design techniques

Parametric Modeling with Autodesk Inventor 2009 Randy H. Shih, 2008 This book contains a series of fifteen tutorial style lessons designed to introduce Autodesk Inventor solid modeling and parametric modeling It uses a hands on exercise intensive approach to all the import parametric modeling techniques and concepts The lessons guide the user from constructing basic shapes to building intelligent mechanical designs creating multi view drawings and assembly models

Autodesk Inventor 2010 Thom Tremblay, 2009-08-06 The only continuous step by step tutorial on the essentials of this manufacturing software If you want to get up and running quickly on the industry leading 3D mechanical design software Autodesk Inventor 2010 No Experience Required is your perfect resource It quickly teaches the essential skills and demonstrates the software using a continuous real world tutorial project Once you understand the interface and how to use Inventor conventions you ll begin actually designing and modeling a project from start to finish Along the way you ll learn the why behind each step Learn to use the interface and Inventor conventions Understand sketching commands and best practices then move into both regular and sheet metal specific part modeling Understand how to join parts into assemblies to create a single digital prototype of a box fan Create and distribute accurate part and assembly drawings learn about

functional design concepts and use Inventor's Design Accelerator features Discover how to work with Inventor weldments and create render and distribute compelling visualizations of the final design using Inventor Studio The companion website provides before and after tutorial files enabling you to jump in at any point and compare your work with the author's results Autodesk Inventor 2010 No Experience Required gives you all the instruction you need to begin using this powerful 3D mechanical design tool

AutoCAD LT 2011 Tutorial Randy Shih, 2010-08-23 AutoCAD LT 2011 contains a series of ten tutorial style lessons designed to introduce students and professionals to AutoCAD LT 2011 and the aspects of computer aided drafting The lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings and building three dimensional wireframe models The new improvements and key enhancements of AutoCAD LT 2011 are incorporated into the lessons This book takes a hands on exercise intensive approach to all the important CAD techniques and concepts The basic premise of this book is that the more designs you create using AutoCAD LT 2011 the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons AutoCAD LT 2011 Tutorial will establish a good basis for exploring and growing in the exciting field of computer aided engineering

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 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

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An Introduction to Autodesk Inventor 2010 and AutoCAD 2010

Randy Shih, 2009-09 Most schools using Autodesk software first introduce students to the 2D features of AutoCAD and then go on to its 3D Capabilities Inventor is usually reserved for the second or third course or for a solid modeling course However another possibility is to introduce students first to solid modeling using Inventor and then to introduce AutoCAD as a 2D product Students learn to create solid models using Inventor and then learn how to create working drawings of their 3D models using AutoCAD This approach provides students with a strong understanding of the process used to create models and drawing in the industry This book contains a series of tutorial style lessons designed to introduce Autodesk Inventor AutoCAD 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 creating multi view drawings and assembly models Introduction to Inventor AutoCAD 2010 consists of ten chapters from Parametric Modeling using Inventor 2010 and six chapters from AutoCAD 2010 Tutorial First Level 2D Fundamentals This book is available only as a three hole punch book for use in a spiral binder This book is used by Ohio State

in their freshman engineering program *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 *Exploring AutoCAD Civil 3D 2020, 10th Edition* Prof. Sham Tickoo, 2020-04-04 Exploring AutoCAD Civil 3D 2020 book introduces the users to the powerful Building Information Modeling BIM solution AutoCAD Civil 3D The book helps you learn create and visualize a coordinated data model that can be used to design and analyze a civil engineering project for its optimum and cost effective performance This book has been written considering the needs of the professionals such as engineers surveyors watershed and storm water analysts land developers and CAD technicians who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains This book provides comprehensive text and graphical representation to explain concepts and procedures required in designing solutions for various infrastructure works The tutorials and exercises which relate to real world projects help you better understand the tools in AutoCAD Civil 3D Salient Features Chapters arranged in pedagogical sequence Comprehensive coverage of concepts and tools covering the scope of the software Real world engineering projects used in tutorials and exercises Step by step examples to guide the users through the learning process Additional information provided throughout the book in the form of tips and notes Self Evaluation test Review Questions and Exercises at the end of each chapter so that the users can assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Civil 3D 2020 Chapter 2 Working with Points Chapter 3 Working with Surfaces Chapter 4 Surface Volumes and Analysis Chapter 5 Alignments Chapter 6 Working with Profiles Chapter 7 Working with Assemblies and Subassemblies Chapter 8 Working with Corridors and Parcels Chapter 9 Sample Lines Sections and Quantity Takeoffs Chapter 10 Feature Lines and Grading Chapter 11 Pipe Networks Chapter 12 Pressure Networks Chapter 13 Working with Plan Production Tools and Data Shortcuts Index [Product Lifecycle Management for Digital Transformation of Industries](#) Ramy Harik, Louis Rivest, Alain Bernard, Benoit Eynard, Abdelaziz Bouras, 2017-03-15 This book constitutes the refereed proceedings of the 13th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2016 held in Columbia SC USA in July 2016 The 57 revised full papers presented were carefully reviewed and selected from 77 submissions The papers are organized in the following topical sections knowledge sharing re use and preservation collaborative development architectures interoperability and systems integration lean product development and the role of PLM PLM and innovation PLM tools cloud computing and PLM tools traceability and performance building information modeling big data analytics and business intelligence information lifecycle management industry 4.0 metrics standards and regulation and product service and systems

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Tutoriais Em Autodesk Inventor 2009 Introduction

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