Autodesk Inventor Tutorial

Autodesk Inventor Tutorial Autodesk Inventor tutorial: Your comprehensive guide to mastering 3D CAD design If you're venturing into the world of 3D CAD modeling, Autodesk Inventor stands out as a powerful software solution for engineers, designers, and hobbyists alike. This Autodesk product offers a robust platform for creating detailed, precise, and functional 3D models, making it an essential tool for product development, mechanical design, and engineering visualization. Whether you're a beginner or looking to refine your skills, this Autodesk Inventor tutorial will guide you through the fundamental concepts, workflows, and tips to help you become proficient in this versatile CAD software. Understanding Autodesk Inventor: An Overview Autodesk Inventor is a professional-grade 3D CAD software used for product design, simulation, visualization, and documentation. Its intuitive interface and extensive tools streamline the process of creating complex mechanical assemblies and parts. Key features include: Parametric Modeling Assembly Design Simulation and Analysis Sheet Metal and Weldment Design Drawing Generation Data Management and Collaboration Before diving into specific tutorials, understanding the core components of Inventor will enhance your learning experience. Getting Started with Autodesk Inventor Installation and System Requirements To begin using Autodesk Inventor, ensure your system meets the recommended requirements: Operating System: Windows 10 64-bit Processor: Intel Core i5 or equivalent (preferably i7 or higher) RAM: 16 GB or more Graphics Card: DirectX 11 compatible with 4GB VRAM Storage: SSD with at least 20 GB free space Download the installer from the Autodesk official website, follow the installation wizard, 2 and activate your license or subscription. Familiarizing with the User Interface The Autodesk Inventor interface is designed for efficiency: Ribbon Toolbar: Primary tool access area, categorized into tabs like 3D Model, Sketch, Assemble, etc. Browser Pane: Displays the hierarchy of parts, assemblies, and features. Graphics Window: The workspace where 3D models are created and manipulated. Navigation Bar: Tools for orbit, pan, zoom, and view manipulation. Command Panel: Contextual tools related to your current task. Familiarity with these areas will help you navigate efficiently during modeling sessions. Basic Workflow in Autodesk Inventor Understanding the typical workflow will guide your project from concept to completion. The main stages include: Creating 2D sketches1. Generating 3D features from sketches2. Assembling parts into a complete model3. Simulating or analyzing the design4. Generating drawings and documentation5. Let's explore each step in detail. Creating Your First Part in Autodesk Inventor Step 1: Starting a New Part - Open Inventor and click on "New" > "Standard.ipt" to create a new part document. - Save your file with a descriptive name. Step 2: Creating a Sketch - Click on the "Start 2D Sketch" button. - Select a plane (XY, YZ, or ZX) to sketch on. - Use sketch tools like line, rectangle, circle, or arc to create your 2D profile. Step 3: Applying Dimensions and Constraints - Use the "Dimension" tool to set sizes. - Apply constraints (parallel, perpendicular, tangent, etc.) to define geometric relationships. - Proper constraints ensure your sketch behaves predictably when modified. 3 Step 4: Creating 3D Features - Finish the sketch. - Use features like "Extrude," "Revolve," or

"Sweep" to turn your 2D sketch into a 3D model. - Adjust parameters such as distance or angle to refine the feature. Step 5: Saving and Managing Your Part - Save your work regularly. - Use version control or save incremental versions to track changes. Assembling Components in Autodesk Inventor Creating assemblies allows you to simulate how parts fit and function together. Step 1: Starting a New Assembly - Click "New" > "Standard.iam" to create an assembly file. - Insert components by clicking "Place" and selecting parts. Step 2: Mating Components - Use "Constraint" tools such as Mate, Flush, or Angle to position parts relative to each other. - For example, align holes or faces for proper assembly. Step 3: Managing Assembly Motion - Apply movement constraints to simulate mechanical motion. - Check for interference or clearance issues. Step 4: Saving and Documenting Assemblies - Save assemblies with clear versioning. - Create exploded views for presentation or manufacturing documentation. Advanced Techniques and Tips To enhance your efficiency and design quality, consider the following advanced tips: Parametric Modeling - Use parameters and equations to control dimensions. - For example, define a "length" parameter and reference it across multiple features for easy updates. 4 Design Tables - Create different configurations of your model using design tables. - Ideal for variants or customizable products. Simulation and Analysis - Use Inventor's stress analysis tools to evaluate your design under real-world conditions. - Run simulations to identify potential failure points or optimize material use. Customization and Automation - Customize toolbars and shortcuts for faster workflows. - Use iLogic rules to automate repetitive tasks or design variations. Learning Resources and Community Support Mastering Autodesk Inventor is an ongoing process. Here are some valuable resources: Official Autodesk Tutorials: Available on Autodesk's website and YouTube channel. Online Courses: Platforms like Udemy, Coursera, and LinkedIn Learning offer comprehensive courses. Community Forums: Autodesk Community, GrabCAD, and Reddit CAD communities for troubleshooting and tips. Documentation and Help Files: Built-in help files and user manuals provide detailed explanations of features. Practice Project: Designing a Simple Mechanical Part Applying your knowledge with a practical project can solidify your skills. 1. Sketch a basic bracket with mounting holes. 2. Extrude and refine features. 3. Create an assembly with a mating bolt. 4. Run a stress analysis to test durability. 5. Generate detailed drawings for manufacturing. This hands-on approach reinforces learning and builds confidence. Conclusion: Your Path to Mastery in Autodesk Inventor Embarking on your Autodesk Inventor journey requires patience, practice, and curiosity. By understanding the fundamental tools, workflows, and best practices outlined in this tutorial, you'll be well-equipped to create complex models, assemblies, and technical documentation. Remember that consistent practice, exploring advanced features, and engaging with the community will accelerate your learning curve. Whether you're designing mechanical components, consumer products, or innovative prototypes, Autodesk Inventor offers the capabilities to bring your ideas to life with precision and 5 efficiency. Start experimenting today, and soon you'll be proficient in transforming concepts into detailed, manufacturable 3D models. Happy designing! QuestionAnswer What are the basic steps to start a new project in Autodesk Inventor? To start a new project in Autodesk Inventor, open the software, click on 'New', select the desired template (e.g., Standard, Sheet Metal), and set up your project environment by defining units, templates, and file locations. Then, begin creating sketches or 3D models as needed. How can I create a parametric model in Autodesk Inventor? You can create a parametric model by defining parameters in the 'Parameters' dialog box, setting dimensions and constraints in sketches, and ensuring features are driven by these parameters. This allows for easy updates and modifications by changing

parameter values. What are the best practices for creating assemblies in Autodesk Inventor? Best practices include designing components with proper constraints, using sub-assemblies for complex projects, maintaining consistent naming conventions, and utilizing assembly visualization tools to manage large assemblies efficiently. How do I use the Autodesk Inventor tutorial videos effectively? Watch tutorial videos step-by-step, pause frequently to replicate the actions, practice creating similar models, and explore the official Autodesk tutorials and community forums to deepen understanding and troubleshoot issues. Can I learn Autodesk Inventor for free through tutorials? Yes, Autodesk offers free tutorials through their official website, YouTube channels, and online learning platforms. Additionally, free trial versions of Inventor allow you to practice and learn without initial investment. What tools in Autodesk Inventor are essential for creating detailed drawings? Key tools include the 'Drawing' environment, annotation tools, dimensions, tolerances, and section views. Mastering these tools helps produce precise and comprehensive technical drawings from your models. How do I troubleshoot common issues during Autodesk Inventor tutorials? Identify the specific issue, consult the Autodesk Knowledge Network, watch tutorial videos carefully, seek help from community forums, and ensure your software is updated to the latest version for optimal performance. Are there beginner-friendly Autodesk Inventor tutorials available online? Yes, numerous beginner-friendly tutorials are available on platforms like YouTube, Autodesk's official Learning Hub, and Udemy. These tutorials typically cover fundamentals such as sketching, part modeling, and assembly creation. 6 What are some advanced features in Autodesk Inventor I should learn after mastering the basics? After mastering the basics, explore advanced features like Simulation, Frame Generator, iParts and iAssemblies, Sheet Metal Design, and Automation tools to enhance your modeling capabilities and streamline design workflows. Autodesk Inventor Tutorial: A Comprehensive Guide to Mastering 3D Mechanical Design In today's rapidly advancing engineering landscape, proficiency in 3D CAD software is an invaluable asset. Among the myriad of tools available, Autodesk Inventor stands out as a powerful and versatile platform for mechanical design, simulation, and documentation. Whether you're a novice seeking to grasp the basics or an experienced engineer aiming to refine your skills, a well-structured tutorial can significantly accelerate your learning curve. This article provides a thorough, analytical overview of Autodesk Inventor tutorials, delving into core functionalities, best practices, and strategic learning approaches to help users maximize their proficiency. --- Understanding Autodesk Inventor: An Overview Before diving into tutorials, it's essential to understand what Autodesk Inventor offers and its role within the CAD ecosystem. What is Autodesk Inventor? Autodesk Inventor is a 3D CAD software designed primarily for product development and mechanical design. It allows users to create detailed 3D models, simulate real-world conditions, generate precise drawings, and collaborate effectively across teams. Its integrated environment supports parametric modeling, assembly design, sheet metal fabrication, and more. Key Features and Capabilities - Parametric Modeling: Enables users to design complex parts with adjustable parameters. - Assembly Environment: Facilitates the creation of assemblies, including motion simulation and interference detection. - Sheet Metal and Weldments: Specialized tools for designing sheet metal parts and welded structures. - Simulation and Analysis: Offers stress analysis, motion simulation, and dynamic performance testing. - Documentation: Automatic generation of detailed 2D drawings from 3D models. - Data Management: Integration with Vault for version control and collaborative workflows. Understanding these features provides context for the tutorials, which typically focus on mastering specific tasks within these domains. --- Autodesk

Inventor Tutorial 7 Getting Started with Autodesk Inventor: Basic Tutorials For newcomers, the initial tutorials focus on foundational skills necessary to navigate the software efficiently. Setting Up Your Environment - Installation and Licensing: Ensure you have the correct version installed, whether via subscription or educational license. - Workspace Customization: Adjust toolbars, panels, and units to suit your workflow. - Understanding the User Interface: Familiarize yourself with the Ribbon, Browser, Graphics Window, and Navigation Cube. Creating Your First Part A typical beginner tutorial walks through creating a simple part, such as a block or bracket: 1. Start a New Part Document: Select 'New' > 'Part.' 2. Sketching: Use the 2D Sketch tool to draw the base shape on a chosen plane. 3. Dimensioning: Apply dimensions to define size constraints. 4. Extruding: Convert the sketch into a 3D object via extrude commands. 5. Applying Fillets or Chamfers: Add finishing touches for practicality or aesthetics. 6. Saving the Model: Save with an appropriate filename and version control. This process introduces users to core features like sketching, constraints, and basic 3D operations. Basic Editing and Features Once the initial model is created, tutorials often cover: - Editing Sketches: Modifying dimensions or shapes. - Adding Features: Holes, cuts, fillets, and patterns. - Using Parameters: Creating adjustable dimensions for easy modifications. - Saving and Exporting: Export models in formats like STEP, IGES, or STL for manufacturing or 3D printing. --- Intermediate Skills: Assembly and Simulation Tutorials Building on basic modeling, these tutorials introduce assembly design and simulation capabilities. Creating and Managing Assemblies Assemblies allow users to combine multiple parts into functional systems: - Inserting Components: Using the 'Place' command to add parts. - Constrain Components: Applying mate, flush, and angle constraints to position parts accurately. - Subassemblies: Organizing complex assemblies into manageable sections. - Interference Detection: Ensuring parts do not collide during movement or operation. - Bill of Materials (BOM): Autodesk Inventor Tutorial 8 Generating lists for manufacturing or procurement. Motion and Interference Analysis - Animating Assemblies: Simulate movement to verify functionality. - Performing Kinematic Studies: Analyze motion paths and identify potential issues. - Stress and Structural Analysis: Use built-in simulation tools to assess load-bearing capacity and durability. Creating Dynamic and Parametric Models Intermediate tutorials emphasize parametric design, where dimensions and features are driven by variables: - Design Tables: Manage multiple configurations within a single model. - Formulas and Expressions: Automate relationships between dimensions for efficient updates. - Configurations: Switch between different design variants quickly. These skills are vital for developing complex, adaptable models aligned with real-world product development workflows. --- Advanced Techniques and Best Practices For seasoned users, tutorials often focus on optimizing workflows, automating tasks, and integrating Inventor with other software. Automation and Scripting - iLogic: Autodesk's rule-based automation tool allows users to embed logic into models, automating repetitive tasks or design variations. - API Integration: For advanced automation, scripting with APIs enables custom functionalities. Collaborative Design and Data Management - Using Autodesk Vault: Manage versions, track revisions, and collaborate on projects efficiently. - Shared Libraries: Create reusable components and templates to streamline design processes. Best Practices for Efficient Modeling - Parametric Design First: Build models with flexibility in mind. - Component Standardization: Use templates and standardized parts to reduce errors. - Documentation: Keep detailed annotations and organized assemblies for clarity. - Regular Backups: Protect work with version control systems. --- Autodesk Inventor Tutorial 9 Strategic Approach to Autodesk Inventor Tutorials A systematic learning path enhances skill acquisition: -

Start with Official Tutorials: Autodesk provides comprehensive beginner guides and videos. - Engage with Community Resources: Forums, user groups, and online courses offer diverse perspectives. - Practice Real-World Projects: Replicate existing designs or invent new concepts. - Seek Certification: Autodesk Certified Professional exams validate skills and provide motivation. By combining structured tutorials with practical application, users can develop both competence and confidence. --- Conclusion: The Value of a Well-Structured Inventor Tutorial Mastering Autodesk Inventor through effective tutorials unlocks the potential for innovative design, efficient modeling, and seamless collaboration. A detailed, step-by-step approach ensures users build a solid foundation before progressing to complex features and automation. Whether for academic purposes, professional development, or personal projects, investing time in comprehensive tutorials empowers users to leverage Inventor's full capabilities, ultimately resulting in higher-quality designs and streamlined workflows. In an era where digital prototyping is integral to engineering success, mastering Autodesk Inventor is more than a skill—it's a competitive advantage. With the right tutorials guiding your journey, transforming ideas into detailed, manufacturable models becomes an achievable and rewarding process. Autodesk Inventor training, Inventor CAD guide, Inventor 3D modeling, Inventor assembly tutorial, Inventor beginner tips, Inventor mechanical design, Inventor part creation, Inventor workflow, Inventor simulation basics, Inventor software tutorial

Unofficial LEGO MINDSTORMS NXT 2.0 Inventor's GuideThe Arduino Inventor's GuideAutodesk Inventor 2025The Inventor's Guide to Trademarks and PatentsInstant InventorAutodesk Inventor 2021 Basics TutorialAutodesk Inventor 2022: A Power Guide for Beginners and Intermediate UsersAutodesk Inventor 2017 A Tutorial IntroductionAutodesk Inventor 2020 A Tutorial IntroductionAutodesk Inventor 2021 A Tutorial IntroductionAutodesk Inventor 2019 Basics TutorialAutodesk Inventor 2022 A Tutorial IntroductionAutodesk VIZ 4 for BeginnersAutodesk Inventor 2018 A Tutorial IntroductionInstant DesignAutodesk Inventor 2019: A Tutorial IntroductionIntroduction to Autodesk Revit 5.0Autodesk Inventor 2026: A Tutorial IntroductionRevit 4. 5 BasicsAutodesk Inventor 2025 Basics Tutorial David J. Perdue Brian Huang L. Scott Hansen Craig Fellenstein Stephen J. Ethier Tutorial Books Sandeep Dogra L. Scott Hansen L. Scott Hansen L. Scott Hansen Tutorial Books L. Scott Hansen Elise Moss L. Scott Hansen Stephen J. Ethier L. Scott Hansen Daniel John Stine L. Scott Hansen Elise Moss Tutorial Books

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helps readers harness the capabilities of the lego mindstorms nxt set and effectively plan build and program nxt 2 0 robots offering an overview of the pieces in the nxt set practical building techniques instruction on the official nxt g programming language and step by step instructions for building programming and testing a variety of sample robots original

with arduino you can build any hardware project you can imagine this open source platform is designed to help total beginners explore electronics and with its easy to learn programming language you can collect data about the world around you to make something truly interactive the arduino inventor s guide opens with an electronics primer filled with essential background knowledge for your diy journey from there you ll learn your way around the arduino through a classic hardware entry point blinking leds over the course of the book 11 hands on projects will teach you how to build a stop light with leds display the volume in a room on a warning dial design and build a desktop fan create a robot that draws with a motor and pens create a servo controlled balance beam build your own playable mini piano make a drag race timer to race toy cars against your friends each project focuses on a new set of skills including breadboarding circuits reading digital and analog inputs reading magnetic temperature and other sensors controlling servos and motors and talking to your computer and the with an arduino at the end of every project you ll also find tips on how to use it and how to mod it with additional hardware or code what are you waiting for start making and learn the skills you need to own your technology uses the arduino uno board or sparkfun redboard

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

this is the complete guide to intellectual property thinking concepts for discovering it creating it protecting it and profiting from it whether you re an individual inventor or an innovator inside a small to medium business or large enterprise you need a deep business focused understanding of intellectual property patents trademarks service marks copyrights trade secrets and the entire invention process in this book craig fellenstein teaches his own critical techniques that have helped him to have over 65 patent applications filed drawing on his expertise in mentoring invention and patent teams fellenstein introduces best practices for managing the entire process of creating and protecting intellectual property coverage includes how inventors think a complete case study teaching how to conceptualize ideas for new patentable inventions causing discovery of new patent ideas validating your invention s uniqueness critical skills practical search tools and the principles of prior art refining and strengthening your inventions preparing patents that professional evaluators will view favorably multiple submissions discovering and filing for follow on patents that flow from your original ideas getting a strong patent that will be more likely to withstand any potential challenges after issuance establishing effective incentives for the creation of new intellectual property harvesting and commercializing inventions practical lessons for inventors using invention teams to systematize and accelerate the innovation process different ways to protect your intellectual property patents trademarks service marks trade secrets and copyrights copyright pearson education all rights reserved

instant design fundamentals of autodesk inventor r 6 another text in the instant design and drafting series continues the tradition of delivering technical information in a quick and easy format the text contains a number of features that make the basic ideas more concrete and clear these include a list of key concepts at the start of each chapter an in a nutshell conclusion to each chapter brief hands on labs throughout each chapter to reinforce newly learned concepts an integrated cd rom that contains hands on practice and 30 solid models

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 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

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 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 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 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

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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

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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

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 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

instant design fundamentals of autodesk inventor 7 another text in the instant design and drafting series continues the tradition of delivering technical information in a quick and easy format the text contains a number of features that make the basic ideas more concrete and clear these include a list of key concepts at the start of each chapter an in a nutshell conclusion to each chapter brief hands on labs throughout each chapter to reinforce newly learned concepts an integrated cd rom that contains hands on practice and 30 solid models

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

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

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