

## How To Use Inventor Stress Analysis

Tools for Design is intended to provide you with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and shows how they can be used in design, both separately and in combination with each other. What you'll learn

- How to create and dimension 2D multiview drawings using AutoCAD
- How to freehand sketch using axonometric, oblique and perspective projection techniques
- How to create 3D parametric models and 2D multiview drawings using Autodesk Inventor
- How to reuse design information between AutoCAD and Autodesk Inventor
- How to combine parts into assemblies including assembly modeling with a LEGO® MINDSTORMS® Education Base Set, with a TETRIX® kit and a VEX Robot Kit
- How to perform basic finite element stress analysis using Inventor Stress Analysis Module

Who this book is for This book is designed for high school and college age students wanting to learn the fundamentals of computer aided design with AutoCAD and Inventor and how the two can be used together. No prior CAD experience is required.

Parametric Modeling with Autodesk Inventor 2018 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling,

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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. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis, 3D printing and the Autodesk Inventor 2018 Certified User Examination.

Parametric Modeling with Autodesk Inventor 2022 contains a series of seventeen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, to creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis, 3D printing and the Autodesk Inventor 2022 Certified User Examination. Video Training Included with every new copy of this book is access to extensive video training. There are forty-seven videos that total nearly six hours of training in total. This video training parallels the exercises found in the text. However, the videos do more than just provide you with click by

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click instructions. Author Luke Jumper also includes a brief discussion of each tool, as well as rich insight into why and how the tools are used. Luke isn't just telling you what to do, he's showing and explaining to you how to go through the exercises while providing clear descriptions of the entire process. It's like having him there guiding you through the book. These videos will provide you with a wealth of information and brings the text to life. They are also an invaluable resource for people who learn best through a visual experience. These videos deliver a comprehensive overview of the tools found in Autodesk Inventor and perfectly complement and reinforce the exercises in the book.

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Autodesk Inventor 2014 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2014. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. This book does not attempt to cover all of Autodesk Inventor 2014's features, only to provide an introduction to the software. It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering. Autodesk Inventor 2014 Certified User Examination The content of this book covers the

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performance tasks that have been identified by Autodesk as being included on the Autodesk Inventor 2014 Certified User examination. Special reference guides show students where the performance tasks are covered in the book. If you are teaching an introductory level Autodesk Inventor course and you want to prepare your students for the Autodesk Inventor 2014 Certified User Examination this is the only book that you need. If your students are not interested in the Autodesk Inventor 2014 Certified User Exam they will still be studying the most important tools and techniques of Autodesk Inventor as identified by Autodesk. For detailed information on the Autodesk Inventor Certified User examination visit [www.autodesk.com/certification](http://www.autodesk.com/certification).

Welcome to the seventh edition of Up and Running with Autodesk(R) Inventor(R) Professional 2020 - Step by step guide to Engineering Solutions. This edition of the book is completely updated to the current 2020 version. This book has been written using actual design problems, all of which have greatly benefited from the use of Simulation technology. For each design problem, I have attempted to explain the process of applying Stress Analysis using a straightforward, step by step approach, and have supported this approach with explanation and tips. At all times, I have tried to anticipate what questions a designer or development engineer would want to ask whilst he or she were performing the task and using

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Stress Analysis. The design problems have been carefully chosen to cover the core aspects and capabilities of Stress and Frame Analysis and their solutions are universal, so you should be able to apply the knowledge quickly to their own design problems with more confidence. The book basically comprises of five sections: Stress Analysis Environment (Chapter 1), Design Problems using Solid Elements (Chapter 2-7), Design Problems using Thin and Solid Elements (Chapter 8-11), Modal Analysis (Chapter 12) and Frame Analysis (Chapter 13 - 16). Chapters 1 & 13 provide an overview of stress, frame, Shape Generator and the user interface and features so that you are well-grounded in core concepts and the software's strengths, weaknesses and work around. Each design problem illustrates a different unique approach and demonstrates different key aspects of the software, making it easier for you pick and choose which design problem you want to cover first; therefore, having read chapter 1 and 13, it is not necessary to follow the rest of the book sequentially. This book is primarily designed for self-paced learning by individuals but can also be used in an instructor-led classroom environment. I hope you will find this book enjoyable and at the same time very beneficial to you and your business. I will be very pleased to receive your feedback, to help me improve future editions. Feel free to email me on [younis\\_wasim@hotmail.com](mailto:younis_wasim@hotmail.com)

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Welcome to the 2nd edition of Up and Running with Autodesk(R) Inventor(R) Nastran(R) 2020 - Simulation for Designers. Inventor Nastran 2020 is a very capable and comprehensive simulation program which covers a broad spectrum of analysis applications including, linear, thermal, buckling, non-linear and the list goes on. In this 2nd edition of the book I have added Fatigue Analysis in addition to updating content to account for the new features in Inventor Nastran 2020 initial release. This book has been written using actual design problems, all of which have greatly benefited from the use of simulation technology. For each design problem, I have attempted to explain the process of applying stress analysis using a straightforward, step by step approach, and

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have supported this approach with explanation and tips. At all times, I have tried to anticipate what questions a designer or development engineer would want to ask whilst he or she were performing the task using Inventor Nastran. The design problems have been carefully chosen to cover the core aspects and linear analysis capabilities of Inventor Nastran and their solutions are universal, so you should be able to apply the knowledge quickly to your own design problems with more confidence. Chapter 1 provides an overview of Inventor Nastran and the user interface and features so that you are well-grounded in core concepts and the software's strengths, limitations and work around. Each design problem illustrates a different unique approach and demonstrates different key aspects of the software, making it easier for you to pick and choose which design problem you want to cover first; therefore, having read chapter 1 it is not necessary to follow the rest of the book sequentially, Except Chapter 11 and 12. In this edition I have included two new chapters focusing around Fatigue Analysis. Chapter 11 provides an overview of Fatigue, including a hand calculation, and Chapter 12 goes through step by step guidance on how to perform Multi-Axial Fatigue analysis within Inventor Nastran. This book is primarily designed for self-paced learning by individuals but can also be used in an instructor-led classroom environment. I hope you will find this book enjoyable and at the same time very beneficial to you and your business. I will be very pleased to receive your feedback, to help me improve future editions. Feel free to email me on [younis\\_wasim@hotmail.com](mailto:younis_wasim@hotmail.com)

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Parametric Modeling with Autodesk Inventor 2017 contains a series of sixteen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2017 Certified User Examination.

Autodesk Inventor 2019 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2019. Using step-by-step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-

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This book has been written using actual design problems, all of which have greatly benefited from the use of Simulation technology. For each design problem, I have attempted to explain the process of applying Inventor Simulation using a straightforward, step by step approach, and have supported this approach with explanation and tips. At all times, I have tried to anticipate what questions a designer or development engineer would want to ask whilst he or she were performing the task and

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Table of Contents Introduction: Getting Started 1. Fundamentals of AutoCAD 2. Basic Object Construction and Dynamic Input - AutoCAD 3. Geometric Construction and

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Editing Tools - AutoCAD 4. Orthographic Views in Multiview Drawings - AutoCAD 5. Basic Dimensioning and Notes - AutoCAD 6. Pictorials and Sketching 7. Parametric Modeling Fundamentals - Autodesk Inventor 8. Constructive Solid Geometry Concepts - Autodesk Inventor 9. Model History Tree - Autodesk Inventor 10. Parametric Constraints Fundamentals - Autodesk Inventor 11. Geometric Construction Tools - Autodesk Inventor 12. Parent/Child Relationships and the BORN Technique - Autodesk Inventor 13. Part Drawings and 3D Model-Based Definition - Autodesk Inventor 14. Symmetrical Features in Design - Autodesk Inventor 15. Design Reuse Using AutoCAD and Autodesk Inventor 16. Assembly Modeling - Putting It All Together - Autodesk Inventor 17. Design Analysis - Autodesk Inventor Stress Analysis Module

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 import parametric

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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 2012 and AutoCAD 2012 consists of ten chapters from Parametric Modeling using Inventor 2012 and six chapters from AutoCAD 2012 Tutorial-First Level: 2D Fundamentals. This book is used by Ohio State in their freshman engineering program.

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Up and Running with Autodesk Inventor Simulation 2011 provides a clear path to perfecting the skills of designers and engineers using simulation inside Autodesk

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Inventor. This book includes modal analysis, stress singularities, and H-P convergence, in addition to the new frame analysis functionality. The book is divided into three sections: dynamic solution, stress analysis, and frame analysis, with a total of nineteen chapters. The first chapter of each section offers an overview of the topic covered in that section. There is also an overview of the Inventor Simulation interface and its strengths, weaknesses, and workarounds. Furthermore, the book emphasizes the joint creation process and discusses in detail the unique and powerful parametric optimization function. This book will be a useful learning tool for designers and engineers, and a source for applying simulation for faster production of better products. Get up to speed fast with real-life, step-by-step design problems—3 new to this edition! Discover how to convert CAD models to working digital prototypes, enabling you to enhance designs and simulate real-world performance without creating physical prototypes Learn all about the frame analysis environment—new to Autodesk Inventor Simulation 2011—and other key features of this powerful software, including modal analysis, assembly stress analysis, parametric optimization analysis, effective joint creation, and more Manipulate and experiment with design solutions from the book using datasets provided on the book's companion website (<http://www.elsevierdirect.com/v2/companion.jsp?ISBN=9780123821027>) and move seamlessly onto tackling your own design challenges with confidence New edition features enhanced coverage of key areas, including stress singularities, h-p

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convergence, curved elements, mechanism redundancies, FEA and simulation theory, with hand calculations, and more

Up and Running with Autodesk Inventor Professional 2020 Independently Published Autodesk Inventor Professional 2022 for Designers is a comprehensive book that introduces users to Autodesk Inventor 2022, a feature-based 3D parametric solid modeling software. All environments of this solid modelling software are covered in this book with a thorough explanation of commands, options, and their applications to create real-world products. The mechanical engineering industry examples that are used as tutorials and the related additional exercises at the end of each chapter help the users to understand the design techniques used in the industry to design a product. Additionally, the author emphasizes solid modelling techniques that will improve the productivity and efficiency of the users. After reading this book, the users will be able to create solid parts, sheet metal parts, assemblies, weldments, drawing views with bill of materials, presentation views to animate the assemblies and apply direct modelling techniques to facilitate rapid design prototyping. Also, the users will learn the editing techniques that are essential for making a successful design.

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Your real-world introduction to mechanical design with Autodesk Inventor 2016 Mastering Autodesk Inventor 2016 and Autodesk Inventor LT 2016 is a complete real-world reference and tutorial for those learning this mechanical design software. With straightforward explanations and practical tutorials, this guide brings you up to speed with Inventor in the context of real-world workflows and

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environments. You'll begin designing right away as you become acquainted with the interface and conventions, and then move into more complex projects as you learn sketching, modeling, assemblies, weldment design, functional design, documentation, visualization, simulation and analysis, and much more. Detailed discussions are reinforced with step-by-step tutorials, and the companion website provides downloadable project files that allow you to compare your work to the pros. Whether you're teaching yourself, teaching a class, or preparing for the Inventor certification exam, this is the guide you need to quickly gain confidence and real-world ability. Inventor's 2D and 3D design features integrate with process automation tools to help manufacturers create, manage, and share data. This detailed guide shows you the ins and outs of all aspects of the program, so you can jump right in and start designing with confidence. Sketch, model, and edit parts, then use them to build assemblies Create exploded views, flat sheet metal patterns, and more Boost productivity with data exchange and visualization tools Perform simulations and stress analysis before the prototyping stage This complete reference includes topics not covered elsewhere, including large assemblies, integrating other CAD data, effective modeling by industry, effective data sharing, and more. For a comprehensive, real-world guide to Inventor from a professional perspective, Mastering Autodesk Inventor 2016 and Autodesk

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Inventor LT 2016 is the easy-to-follow hands-on training you've been looking for. Autodesk Inventor 2018 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2018. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. This book does not attempt to cover all of Autodesk Inventor 2018's features, only to provide an introduction to the software. It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering.

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Inventor Simulation is an essential part of the Autodesk Digital Prototyping process. It allows engineers and designers to explore and test components and products virtually, visualizing and simulating real-world performance. Up and Running with Autodesk Inventor Simulation 2010 is dedicated to the requirements of Inventor users who need to quickly learn or refresh their skills, and apply the dynamic simulation, assembly analysis and optimization capabilities of Inventor Simulation 2010. Step-by-step approach gets you up and running fast Discover how to convert CAD models to working digital prototypes, enabling you to enhance designs, reduce over design, failure, and the need to create physical prototypes Extensive real-world design problems explore all the new and key features of the 2010 software, including assembly stress analysis; parametric optimization analysis; creating joints effectively; avoiding redundant joints; unknown force; logic conditions; and more... Tips and guidance you to tackle your own design challenges with confidence

- Teaches you the principles of both engineering graphics and Autodesk Inventor 2022
- Uses step by step tutorials that cover the most common features of Autodesk Inventor
- Includes a chapter on stress analysis
- Prepares you for the Autodesk Inventor Certified User Exam Autodesk Inventor 2022 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering

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graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2022. Using step-by-step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. This book does not attempt to cover all of Autodesk Inventor 2022's features, only to provide an introduction to the software. It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering.

A comprehensive guide to Autodesk Inventor and Inventor LT This detailed reference and tutorial provides straightforward explanations, real-world

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examples, and practical tutorials that focus squarely on teaching Autodesk Inventor tips, tricks, and techniques. The book also includes a project at the beginning to help those new to Inventor quickly understand key interface conventions and capabilities. In addition, there is more information on Inventor LT, new practice drawings at the end of each chapter to reinforce lessons learned, and thorough coverage of all of Inventor's new features. The author's extensive experience across industries and his expertise enables him to teach the software in the context of real-world workflows and work environments. Mastering Inventor explores all aspects of part design, including sketching, basic and advanced modeling techniques, working with sheet metal, and part editing. Here are just a few of the key topics covered: Assemblies and subassemblies Real-world workflows and offering extensive detail on working with large assemblies Weldment design Functional design using Design Accelerators and Design Calculators Everything from presentation files to simple animations to documentation for exploded views Frame Generator Inventor Studio visualization tools Inventor Professional's dynamic simulation and stress analysis features Routed systems features (piping, tubing, cabling, and harnesses) The book's detailed discussions are reinforced with step-by-step tutorials, and readers can compare their work to the downloadable before-and-after tutorial files. In addition,

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you'll find an hour of instructional videos with tips and techniques to help you master the software. 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.

Parametric Modeling with Autodesk Inventor 2016 contains a series of sixteen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2016 Certified User Examination.

Autodesk Inventor 2017 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2017. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end you will be fully prepared to take and pass the Autodesk Inventor Certified User

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Exam. This text is intended to be used as a training guide for students and professionals. The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. This book does not attempt to cover all of Autodesk Inventor 2017's features, only to provide an introduction to the software. It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering.

Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and show how they can be used in design, both separately and in combination with each other. What you'll learn

- How to create and dimension 2D multiview drawings using AutoCAD
- How to freehand sketch using axonometric, oblique and perspective projection techniques
- How to create 3D parametric models and 2D multiview drawings using Autodesk Inventor
- How to reuse design information between AutoCAD and Autodesk Inventor
- How to combine parts into assemblies including assembly modeling with a LEGO®

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MINDSTORMS® Education Base Set with TETRIX® kit and a VEX Robot Kit How to perform basic finite element stress analysis using Inventor Stress Analysis Module Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk: AutoCAD and Autodesk Inventor. This book explores the strengths of each package and shows how they can be used in design, both separately and in combination with each other. What you'll learn How to create and dimension 2D multiview drawings using AutoCAD How to freehand sketch using axonometric, oblique and perspective projection techniques How to create 3D parametric models and 2D multiview drawings using Autodesk Inventor How to reuse design information between AutoCAD and Autodesk Inventor How to combine parts into assemblies including assembly modeling with a LEGO® MINDSTORMS® Education Base Set, with a TETRIX® kit and a VEX Robot Kit How to perform basic finite element stress analysis using Inventor Stress Analysis Module Parametric Modeling with Autodesk Inventor 2013 contains a series of sixteen tutorial style lessons designed to introduce Autodesk Inventor, solid modeling, and parametric modeling. It uses a hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent mechanical designs, creating multi-view drawings and assembly models. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2013

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Certified Associate Examination.

Parametric Modeling with Autodesk Inventor 2012 contains a series of sixteen 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. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2012 Certified Associate Examination.

Parametric Modeling with Autodesk Inventor 2015 contains a series of sixteen 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. Other featured topics include sheet metal design, motion analysis, 2D design reuse, collision and contact, stress analysis and the Autodesk Inventor 2015 Certified User Examination.

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

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introduce students first to solid modeling using Autodesk Inventor and then to introduce AutoCAD as a 2D product. In this book students learn to create solid models using Autodesk 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 by many professionals in the industry to create models and working drawings. 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. An Introduction to Inventor 2013 and AutoCAD 2013 consists of eleven chapters from Parametric Modeling with Inventor 2013 and six chapters from AutoCAD 2013 Tutorial-First Level: 2D Fundamentals. Both of these books are highly regarded and are very popular making this book an exceptional value for anyone interested in learning both software packages.

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