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Autodesk Inventor
Stress Analysis
Tutorials

Autodesk Inventor Stress Analysis Tutorials

Parametric Modeling
with Autodesk Inventor
2017 contains a series of
sixteen tutorial style
lessons designed to

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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

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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 2014 and Engineering

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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

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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

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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

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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

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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 performance tasks that have been

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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

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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

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information on the
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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-

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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 environments. You'll begin designing right away as you become

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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

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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

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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,

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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,

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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 Inventor LT 2016* is the easy-to-follow hands-on training

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you've been looking for.

Autodesk Inventor Professional 2019 for Designers is a comprehensive book that introduces the users to Autodesk Inventor 2019, a feature-based 3D parametric solid modeling software. All environments of this solid modeling software are covered in this book with thorough

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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

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a product. Additionally, the author emphasizes on the solid modeling 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

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views to animate the assemblies, and apply direct modeling techniques to facilitate rapid design prototyping. Salient Features: Detailed explanation of all concepts, techniques, commands, and tools of Autodesk Inventor Professional 2019 Tutorial approach to explain the concepts

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Step-by-step instructions and real-world mechanical engineering designs as tutorials and projects
Additional information in the form of notes and tips
Self-Evaluation Test, Review Questions, and Exercises at the end of each chapter for the users can assess their knowledge. Technical support by contacting 'te

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chsupport@cadcim.com'

Additional learning
resources at 'allaboutcad
cam.blogspot.com'.

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Tutorials
Tools for Design Using
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Autodesk Inventor 2021
Autodesk Inventor 2014
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2023

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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

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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

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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.

Parametric
Modeling with
Autodesk Inventor

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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

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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

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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

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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

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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

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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

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exercises in the
book.

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

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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

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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

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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

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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,

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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

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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

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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

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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

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implement the required operations. Rather than using a verbal description of the command, a screen capture of each command is replicated.

Tools for Design is intended to provide you with an overview of computer aided

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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

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each other. What
you'll learn How to
create and
dimension 2D
multiview drawings
using AutoCAD How
to freehand sketch
using axonometric,
oblique and
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techniques How to
create 3D

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and 2D multiview
drawings using
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How to reuse design
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Education Base Set,

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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

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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.

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Parametric
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Inventor Simulation
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Professional 2022
for Designers, 22nd
Edition

Autodesk Inventor
2020 A Tutorial
Introduction

**This unique
text and video
set presents a
thorough
introduction
to Autodesk**

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Inventor for
anyone with
little or no
prior
experience
with CAD
software. It
can be used in
virtually any
setting from
four year
engineering

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level and ends
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how to use its
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book is that
learning
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design
programs is
best
accomplished
by emphasizing
the
application of

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the tools.

Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software

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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

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use the book
for self-
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Inventor is
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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
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the part
developed by
each chapter's
objectives.
Since CAD
programs are
highly visual,

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there are
graphical
illustrations
showing how to
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program. This
reinforces the
“learn by
doing”
philosophy
since a
student can

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see exactly
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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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and

Engineering
Graphics: An
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**Approach will
teach you the
principles of
engineering
graphics while
instructing
you on how to
use the
powerful 3D
modeling
capabilities
of Autodesk**

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This textbook
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by-step
tutorial style
lessons,
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introduce

beginning CAD
users to the
graphic
language used
in all
branches of
technical
industry. This
book does not
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cover all of
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**features, only
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Simulation is
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creating
joints
effectively;
avoiding
redundant
joints;
unknown force;
logic
conditions;
and more...

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guidance you
to tackle your
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challenges
with
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An Autodesk
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**Inventor has
been used to
design**

**everything
from cars and
airplanes to
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This

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**This reference
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effective
model design
for various
industries,
strategies for
effective data
and asset
sharing, using

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quickly grasp
the interface,
tools, and
processes
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simple
animations and

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design, and
more Covers
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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-

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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"

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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

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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

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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

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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

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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

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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.

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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

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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

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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

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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

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*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.
Parametric*

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Modeling with Autodesk Inventor 2018 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

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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.

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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. Autodesk Inventor 2020 and

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*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
2020. Using step-*

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*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*

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Stress Analysis
Tutorials

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

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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

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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.

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This book does not attempt to cover all of Autodesk Inventor 2020'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

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Tutorials
*Computer Aided
Engineering.*

*Autodesk Inventor
2020 Certified User
Examination The
content of this
book covers the
performance tasks
that have been
identified by
Autodesk as being
included on the
Autodesk Inventor
2020 Certified User*

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examination.

*Special reference
guides show
students where the
performance tasks
are covered in the
book.*

*Parametric
Modeling with
Autodesk Inventor
2016 contains a
series of sixteen
tutorial style
lessons designed to*

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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

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*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

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*contact, stress
analysis and the*

*Autodesk Inventor
2016 Certified User
Examination.*

*Autodesk Inventor
2017 A Tutorial
Introduction*

*Autodesk Inventor
2018 A Tutorial
Introduction*

*Autodesk Inventor
Professional 2020
for Designers, 20th*

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Edition
A Tutorial

Introduction

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

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*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*

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*“learning by doing”
approach. The
philosophy behind
this book is that
learning computer
aided design
programs is best
accomplished by
emphasizing the
application of the
tools. Students also
seem to learn more
quickly and retain*

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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

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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

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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

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*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*

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*implement the
required operations.
Rather than using a
verbal description of
the command, a
screen capture of
each command is
replicated.*

*Autodesk Inventor
2015 and
Engineering
Graphics: An
Integrated Approach*

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will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2015. Using step by step tutorials, this text will teach you

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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

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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

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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

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Tutorials
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
2015's features, only
to provide an

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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 Professional 2021 for Designers is a comprehensive

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book that introduces
the users to

*Autodesk Inventor
2021, 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*

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*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*

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*users to understand
the design*

*techniques used in
the industry to
design a product.*

*Additionally, the
author emphasizes
on the solid
modelling*

*techniques that will
improve the
productivity and
efficiency of the*

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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

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modelling techniques to facilitate rapid design prototyping. Also, the users will learn the editing techniques that are essential for making a successful design. Salient Features: Comprehensive book consisting of 19 chapters

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organized in a pedagogical sequence. Detailed explanation of all concepts, techniques, commands, and tools of Autodesk Inventor Professional 2021. Tutorial approach to explain the concepts. Step-by-

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step instructions that guide the users through the learning process. Real-world mechanical engineering designs as tutorials and projects. Self-Evaluation Test, Review Questions, and Exercises are given at the end of the chapters Table

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and Revolving the
Sketches Chapter 5:
Other Sketching and
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Chapter 14: Working
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*Chapter 15:
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*A complete tutorial
for the real-world
application of
Autodesk Inventor,
plus video
instruction on DVD
Used to design
everything from
airplanes to
appliances,
Autodesk Inventor is
the industry-leading*

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Tutorials
*3D mechanical
design software.*

*This detailed tutorial
and reference
covers practical
applications to help
you solve design
problems in your
own work
environment,
allowing you to do
more with less. It
also addresses*

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topics that are often omitted from other guides, such as Inventor Professional modules, design tactics for large assemblies, using 2D and 3D data from other CAD systems, and a detailed overview of the Inventor utility

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tools such as Design Assistant and Task Scheduler that you didn't even know you had. Teaches the most popular 3D mechanical design software in the context of real-world workflows and work environments Provides an overview of the

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*Inventor 2010 ribbon
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design concepts,
and advanced
information on
productivity-boosting
and visualization
tools Offers crucial
information on data
exchange, including
SolidWorks, Catia,
Pro-E, and others.
Shares details on*

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*documentation,
including exploded
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simple animations,
rendered animations
and stills with
Inventor Studio, and
sheet metal flat
patterns Covers
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Professional, and
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and-after tutorial files, a searchable PDF of the book, innovative video tutorials for each chapter, and more Mastering Autodesk Inventor teaches you to get the most from the software and provides a reference to help you on the job, allowing you to

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utilize the tools you didn't even know you had to quickly achieve professional results. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

*Autodesk Inventor
2021 and
Engineering*

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Press*

*Autodesk Inventor
2016 - A Tutorial
Introduction*

*Autodesk Inventor
2019: A Tutorial
Introduction*

*Mastering Autodesk
Inventor 2016 and
Autodesk Inventor
LT 2016*

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Autodesk Inventor Professional 2018 for Designers is a comprehensive book that introduces the users to Autodesk Inventor 2018, a feature-based 3D parametric solid modeling software. All environments of this solid modeling

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software are covered in this book with 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

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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 on the solid modeling techniques that will improve the

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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

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animate the assemblies, and apply direct modeling techniques to facilitate rapid design prototyping. Also, the users will learn the editing techniques that are essential for making a successful design.
Salient Features:

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Comprehensive book consisting of 19 chapters organized in a pedagogical sequence. Detailed explanation of all concepts, techniques, commands, and tools of Autodesk Inventor Professional 2018. Tutorial approach to explain

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the concepts. The first page of every chapter summarizes the topics that are covered in it. More than 54 real-world mechanical engineering designs as tutorials and projects. Additional information throughout the book

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in the form of notes
and tips. Self-

Evaluation Test,
Review Questions,
and Exercises are
given at the end of
each chapter so that
the users can assess
their knowledge.

Technical support by
contacting 'techsupp
ort@cadcim.com'.

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Additional learning
resources at 'allabout
cadcam.blogspot.co
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Sketches Chapter 5:
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Chapter 14: Working
with Sheet Metal

Components Chapter
15: Introduction to
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Welcome to the 2nd
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Running with
Autodesk(R)

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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,

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

The Autodesk®
Inventor® program
was introduced in

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1999 as an ambitious
3D parametric
modeler based not on
the familiar
Autodesk®
AutoCAD®
software
programming
architecture but
instead on a separate
foundation that
would provide the

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room needed to grow into the fully featured modeler it is now, more than a decade later.

Autodesk Inventor 2015 continues the development of Autodesk Inventor with improved modeling, drawing, assembly, and

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visualization tools.
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Autodesk has set out to improve this release of Autodesk Inventor by devoting as much time and energy to improving existing tools and features as it has to adding new ones.

With this book, the sixth edition of

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Autodesk® Inventor
LT™ 2015, I have
set out to update the
existing pages and
add new content and
exercises. In these
pages, you will find
detailed information
on the specifics of

the tools and the principles of sound parametric design techniques. Some readers will find this book works best for them as a desktop reference, whereas others will use it primarily for the step-by-step tutorials. With this in mind,

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I've worked to shape the pages of this book with a mix of reference material, instructional steps, and tips and hints from the real world. Up and Running with Autodesk Inventor Simulation 2011 provides a clear path to perfecting

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the skills of designers and engineers using simulation inside Autodesk Inventor. This book includes modal analysis, stress singularities, and H-P convergence, in addition to the new frame analysis functionality. The

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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

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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

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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-

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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

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prototypes Learn all
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analysis
environment—new
to Autodesk Inventor
Simulation
2011—and other key
features of this
powerful software,
including modal
analysis, assembly
stress analysis,

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optimization

analysis, effective
joint creation, and
more Manipulate and
experiment with
design solutions
from the book using
datasets provided on
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companion website (
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irect.com/v2/compan
ion.jsp?ISBN=97801
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edition features
enhanced coverage
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including stress
singularities, h-p

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convergence, curved
elements,

mechanism

redundancies, FEA
and simulation

theory, with hand
calculations, and

more

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with Autodesk

Inventor 2019

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Edition

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**Parametric
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2021 contains a
series of seventeen
tutorial style
lessons designed to
introduce Autodesk
Inventor, solid
modeling, and
parametric
modeling. It uses a**

hands-on, exercise-intensive approach to all the important parametric modeling techniques and concepts. The lessons guide the user from constructing basic shapes to building intelligent

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view drawings and
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**Other featured
topics include sheet
metal design,
motion analysis, 2D
design reuse,
collision and
contact, stress
analysis, 3D**

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**printing and the
Autodesk Inventor
2021 Certified User
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new copy of this
book is access to
extensive video
training. The video
training parallels
the exercises found**

in the text and are designed to be watched first before following the instructions in the book. However, the videos do more than just provide you with click by click instructions.

Author Luke

Jumper also

includes a brief discussion of each tool, as well as rich insight into why and how the tools are used. Luke isn't just telling you what to do, he's showing and explaining to you how to go through the exercises while

providing clear descriptions of the entire process. It's like having him there guiding you through the book. These videos will provide you with a wealth of information and brings the text to life. They are also

**an invaluable
resource for people
who learn best
through a visual
experience. These
videos deliver a
comprehensive
overview of the
tools found in
Autodesk Inventor
and perfectly
complement and**

**reinforce the
exercises in the
book. Autodesk
Inventor 2021
Certified User
Examination The
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Parametric
Modeling with
Autodesk Inventor
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performance tasks**

**that have been
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book.

Tutorials
**Autodesk Inventor
2023 and
Engineering
Graphics An
Integrated
Approach SDC
Publications
Parametric
Modeling with
Autodesk Inventor
2015 contains a**

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**series of sixteen
tutorial style
lessons designed to
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Inventor, solid
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**2016 and
Engineering
Graphics: An
Integrated
Approach will
teach you the
principles of
engineering
graphics while
instructing you on
how to use the
powerful 3D**

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Tutorials

**capabilities of
Autodesk Inventor
2016. 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**

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**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**

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**chapters in this text
proceed in a
pedagogical
fashion to guide
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shapes to making
complete sets of
engineering
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**approach to all the
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of Engineering
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Inventor 2016'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

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the principles
of both
engineering
graphics and
Autodesk
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Uses step by
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that cover the
most common
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engineering
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

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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

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Exam. This text
is intended to
be used as a
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this text
proceed in a
pedagogical
fashion to guide
you from
constructing

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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

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introduction to
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Inventor for
anyone with
little or no
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the-job use or
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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

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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

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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

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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

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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

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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

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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

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highly visual,
there are
graphical
illustrations
showing how to
use the program.
This reinforces
the “learn by
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philosophy since
a student can
see exactly what
the program
shows, and then

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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

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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

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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

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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

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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

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videos you will need to follow the instruction included on the inside front cover to redeem the access code included with each book.

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covers the
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tasks that have
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ever to learn
Inventor by

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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.

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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

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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

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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

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Drawing
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chapter are more
complex
iterations of
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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

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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

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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

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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

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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

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Other featured topics
include sheet metal
design, motion
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reuse, collision and
contact, stress
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the book. If you are teaching an introductory level Autodesk Inventor course and you want to prepare your students for the Autodesk Inventor 2019 Certified User Examination this is the only book that you need. If your students are not interested in the

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will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2023. Using step-by-step tutorials, this text will teach you how to create and read engineering drawings while

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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.

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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

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examination. Special reference guides show students where the performance tasks are covered in the book.

Autodesk Inventor Professional 2020 for Designers is a comprehensive book that introduces the users to Autodesk Inventor 2020, a feature-based 3D

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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

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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 on the solid modelling techniques that will improve the

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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

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direct modelling techniques to facilitate rapid design prototyping. Also, the users will learn the editing techniques that are essential for making a successful design. Salient Features:

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sequence. Detailed explanation of all concepts, techniques, commands, and tools of Autodesk Inventor Professional 2020. Tutorial approach to explain the concepts. Step-by-step instructions that guide the users through the learning process. More than 54 real-world

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mechanical engineering designs as tutorials and projects. Self-Evaluation Test, Review Questions, and Exercises are given at the end of the chapters so that the users can assess their knowledge. Technical support by contacting 'techsupport@cadcim.com'.

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Chapter 6: Advanced
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Chapter 7: Editing
Features and Adding
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total. This video

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