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Technical Graphics Sdc Publications Solutions

Technical Drawing 101 covers
topics ranging from the most basic,

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such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5-2009 Dimensioning and Tolerancing

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standard. But un-like the massive technical drawing reference texts on the market, Technical Drawing 101 aims to present just the right mix of information and projects that can be reasonably covered by faculty, and assimilated by

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students, in one semester. Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal. The authors have also created video tutorials for this book in which they

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demonstrate how to use many of AutoCAD's tools and commands. The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup (units, limits, and layers), the tools of the

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Draw, Modify, and Dimension toolbars, and the fundamentals of 3D modeling. By focusing on the fundamental building blocks of CAD, Technical Drawing 101 provides a solid foundation for students going on to learn

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advanced CAD concepts and techniques (paper space, viewports, xrefs, annotative scaling, etc.) in intermediate CAD courses. In recognition of the diverse career interests of our students, Technical Drawing 101 includes projects in

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which students create working drawings for a mechanical assembly as well as for an architectural project. We include architectural drawing because our experience has shown that many (if not most) first-semester drafting

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students are interested in careers in the architectural design field, and that a traditional technical drawing text, which focuses solely on mechanical drawing projects, holds little interest for these students. The multidisciplinary approach of this

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text and its supporting materials is intended to broaden the appeal of the curriculum and increase student interest and, it is hoped, future enrollments.

- Blends technical drawing and an introduction to AutoCAD 2022 •

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Covers both mechanical and architectural projects • Twenty six hours of video instruction is included with each book • Drafting theory is incorporated throughout the text • Designed to be used in a single semester, instructor led

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course • Each chapter contains key terms, unit summaries, review questions and drawing projects

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projects are introduced to capture the interest of more students and to offer a broader appeal. The authors have also created extensive video training (176 videos, 26 hours total) that is included with every copy of the book. In these videos the

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authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. The videos progress to more advanced topics where the authors walk students through

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completing several of the projects in the book. The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup (units, limits, and layers), the tools of the Draw, Modify, and

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Drawing and Detailing with SolidWorks 2014 is written to educate and assist students,

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designers, engineers, and professionals in the drawing and detailing tools of SolidWorks. Explore the learning process through a series of design situations, industry scenarios, projects, and objectives target

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towards the beginning to intermediate SolidWorks user. Work through numerous activities to create multiple-view, multiple-sheet, detailed drawings, and assembly drawings. Develop Drawing templates, Sheet formats,

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and Custom Properties. Construct drawings that incorporate part configurations, assembly configurations, and design tables with equations. Manipulate annotations in parts, drawings, assemblies, Revision tables, Bills of

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Materials and more. Apply your drawing and detailing knowledge to over thirty exercises. The exercises test your usage competency as well as explore additional topics with industry examples. Advanced exercises require the ability to

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create parts and assemblies.
Engineering Graphics Technical
Sketching is a compact textbook
that provides a thorough
introduction to the graphic
language. Freehand sketching
exercises are formatted on special

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grids. This book uses logical and powerful analyzation techniques to develop visualization skills. Table of Contents A. Introduction B. Lettering C. Freehand Sketching D. Orthographic Projection E. Normal Surfaces F. Inclined

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Surfaces G. Oblique Surfaces H.
Cylindrical Surfaces I. Auxiliary
Views J. Sectional Views K.
Fasteners L. Dimensioning M.
Tolerancing
Engineering Design with
SOLIDWORKS 2021

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Technical Drawing 101 with
AutoCAD 2019

AutoCAD 2021 for the Interior
Designer

Engineering Graphics with
SOLIDWORKS 2021

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The primary goal of AutoCAD 2018 Tutorial First Level 2D Fundamentals is to introduce the aspects of Computer Aided Design and Drafting (CADD). This text is intended to be used as a training guide for students and

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professionals. This text covers AutoCAD 2018 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings. This textbook contains a series of eleven tutorial style

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lessons designed to introduce beginning CAD users to AutoCAD 2018. It takes a hands-on, exercise-intensive approach to all the important 2D CAD techniques and concepts. This text is also helpful to AutoCAD users upgrading from

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a previous release of the software. The new improvements and key enhancements of the software are incorporated into the lessons. The 2D-CAD techniques and concepts discussed in this text are also designed to serve as the

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foundation to the more advanced parametric feature-based CAD packages such as Autodesk Inventor. The basic premise of this book is that the more designs you create using AutoCAD 2018, the better you learn the software. With

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this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons. This book is intended to help readers establish a good basis for exploring and growing in the exciting field of Computer

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Aided Engineering.

Engineering Graphics Essentials with AutoCAD 2022 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical

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and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of AutoCAD 2022. This book features independent

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learning material containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures, and it

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will give students a superior understanding of engineering graphics and AutoCAD. The independent learning material allows students to go through the topics of the book independently. The main content of the material

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contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow students to go through the

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instructor led and in-class student exercises found in the book on their own. Video examples are also included to supplement the learning process. Multimedia Content • Summary pages with audio lectures (includes closed

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captioning) • Interactive exercises
and puzzles • Videos
demonstrating how to solve
selected problems (includes closed
captioning) • AutoCAD video
tutorials (includes closed
captioning) • Supplemental

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problems and solutions • Tutorial
starter files

Engineering & Computer Graphics
Workbook Using SOLIDWORKS

2018 is an exercise-based
workbook that uses step-by-step
tutorials to cover the

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fundamentals of SOLIDWORKS 2018. The intended audience is college undergraduate engineering majors, but it could also be used in pre-college introductory engineering courses or by self learners. The text follows an

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educational paradigm that was researched and developed by the authors over many years. The paradigm is based on the concurrent engineering approach to engineering design in which the 3-D solid model data serves as the

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central hub for all aspects of the design process. The workbook systematically instructs the students to develop 3-D models using the rich tools afforded in SOLIDWORKS. The exercises then proceed to instruct the students

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on applications of the solid model to design analysis using finite elements, to assembly modeling and checking, to kinematic simulation, to rapid prototyping, and finally to projecting an engineering drawing. The

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workbook is ideally suited for courses in which a reverse engineering design project is assigned. This book contains clear and easy to understand instructions that enable the students to robustly learn the

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main features of SOLIDWORKS,
with little or no instructor input.
Principles and Practices An
Integrated Approach to
Engineering Graphics and
AutoCAD 2022 combines an
introduction to AutoCAD 2022 with

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a comprehensive coverage of engineering graphics principles. By adopting this textbook, you will no longer need to adopt separate CAD and engineering graphics books for your course. Not only will this unified approach give your

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course a smoother flow, your students will also save money on their textbooks. What's more, the tutorial exercises in this text have been expanded to cover the performance tasks found on the AutoCAD 2022 Certified User

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Examination. The primary goal of Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2022 is to introduce the aspects of engineering graphics with the use of modern Computer

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Aided Design/Drafting software - AutoCAD 2022. This text is intended to be used as a training guide for students and professionals. The chapters in the text proceed in a pedagogical fashion to guide you from

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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

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discussions of CAD techniques. This textbook contains a series of thirteen 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

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industry. The CAD techniques and concepts discussed in the text are also designed to serve as the foundation to the more advanced parametric feature-based CAD packages, such as Autodesk Inventor. After completing this text

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your students will be prepared to pass the AutoCAD Certified User Examination. Certified User Reference Guides located at the front of the book and in each chapter show where these performance tasks are covered.

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Exploring DraftSight

AutoCAD 2021 Tutorial First Level
2D Fundamentals

AutoCAD 2018 Tutorial First Level
2D Fundamentals

Engineering Graphics Essentials
with AutoCAD 2012 Instruction

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Solutions

Official Guide to Certified
SOLIDWORKS Associate Exams:
CSWA, CSDA, CSWSA-FEA
(SOLIDWORKS 2015 - 2017)

Engineering Graphics
Essentials with AutoCAD
2021 Instruction gives

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students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It

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covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of AutoCAD 2021. This book features

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independent learning material containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to

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encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and

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AutoCAD. The independent learning material allows students to go through the topics of the book independently. The main content of the material contains pages that

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summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow

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students to go through the instructor led and in-class student exercises found in the book on their own. Video examples are also included to supplement the learning

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process. Multimedia
Content • Summary pages
with audio lectures •
Interactive exercises and
puzzles • Videos
demonstrating how to solve
selected problems •

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AutoCAD video tutorials •
Supplemental problems and
solutions • Tutorial
starter files Each chapter
contains these types of
exercises: • Instructor
led in-class exercises

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Students complete these exercises in class using information presented by the instructor using the PowerPoint slides included in the instructor files. • In-class student exercises

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These are exercises that students complete in class using the principles presented in the lecture.

- Video Exercises These exercises are found in the text and correspond to

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videos found in the independent learning material. In the videos the author shows how to complete the exercise as well as other possible solutions and common

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mistakes to avoid. •

Interactive Exercises

These exercises are found in the independent learning material and allow students to test what they've learned and

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instantly see the results.

- End of chapter problems

These problems allow students to apply the principles presented in the book. All exercises are on perforated pages

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that can be handed in as assignments. • Review Questions The review questions are meant to encourage students to recall and consider the content found in the text

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by having them formulate descriptive answers to these questions. •

Crossword Puzzles Each chapter features a short crossword puzzle that emphasizes important

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terms, phrases, concepts,
and symbols found in the
text.

Engineering Graphics
Essentials with AutoCAD
2012 Instruction gives
students a basic

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including tolerancing and
fasteners while also
teaching them the
fundamentals of AutoCAD
2012. This book features
an independent learning CD

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containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to

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interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The enclosed

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independent learning CD allows the learner to go through the topics of the book independently. The main content of the CD contains pages that summarize the topics

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covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow the learner to go through the

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instructor led and in-class student exercises found in the book on their own. Video examples are also included to supplement the learning process. Each chapter

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contains these types of exercises: Instructor led in-class exercises
Students complete these exercises in class using information presented by the instructor using the

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PowerPoint slides on the instructor CD. In-class student exercises These are exercises that students complete in class using the principles presented in the lecture.

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Video Exercises These exercises are found in the text and correspond to videos found on the CD. In the videos the author shows how to complete the exercise as well as other

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common mistakes to avoid.
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found in the text.

The primary goal of
AutoCAD 2021 Tutorial
First Level 2D
Fundamentals is to
introduce the aspects of

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Computer Aided Design and Drafting (CADD). This text is intended to be used as a training guide for students and professionals. This text covers AutoCAD 2021 and

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the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings. This textbook contains a series of

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eleven tutorial style lessons designed to introduce beginning CAD users to AutoCAD 2021. It takes a hands-on, exercise-intensive approach to all the important 2D CAD

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techniques and concepts.
This text is also helpful
to AutoCAD users upgrading
from a previous release of
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the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons. This book is intended to help readers

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establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering. Video Training Included with every new copy of AutoCAD

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2021 Tutorial First Level
2D Fundamentals is access
to extensive video
training. The video
training parallels the
exercises found in the
text and is designed to be

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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

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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

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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

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you with a wealth of information and bring the text to life. They are also an invaluable resource for people who learn best through a visual experience. These

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videos deliver a comprehensive overview of the 2D tools found in AutoCAD and perfectly complement and reinforce the exercises in the book. This book focuses on

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strengthening 3D
visualization skills
through sketching
exercises. It does not
make reference to any
particular computer-aided
design software package.

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Hand Sketching, 2D Drawing
and 3D Modeling
Engineering Graphics
Essentials with AutoCAD
2021 Instruction
A Multidisciplinary Guide
to Drafting Theory and

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Practice with Video
Instruction
Visualization and
Engineering Design
Graphics with Augmented
Reality Second Edition
Text and Video Instruction

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This book is your AutoCAD 2019 Instructor. The objective of this book is to provide you with extensive knowledge of AutoCAD, whether you are taking an instructor-led course or learning on your own.

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AutoCAD 2019 Instructor maintains the pedagogy and in-depth coverage that have always been the hallmark of the Leach texts. As the top-selling university textbook for almost a decade, the AutoCAD

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Instructor series continues to deliver broad coverage of AutoCAD in a structured, easy-to-comprehend manner.

AutoCAD 2019 Instructor is command-oriented, just like AutoCAD. Chapters are

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structured around related commands, similar to the organization of AutoCAD's menu system. The sequence of chapters starts with fundamental drawing commands and skills and then

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progresses to more elaborate procedures and specialized applications. The writing style introduces small pieces of information explained in simple form, and then builds on that knowledge to deliver

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more complex drawing strategies, requiring a synthesis of earlier concepts. Over 2000 figures illustrate the commands, features, and ideas. AutoCAD 2019 Instructor is an ideal reference

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guide, unlike tutorial-oriented books where specific information is hard to relocate. Because these chapters focus on related commands, and complete coverage for each command is given in one

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place, the commands, procedures, and applications are easy to reference. Tabbed pages help locate tables, lists, appendices, and the comprehensive index. What makes this book unique?In

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*depth coverage of AutoCAD
2019 commands and
features Command Tables
indicate where to locate and
how to start each command TIP
markers in the margin provide
important tips, notes,*

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*reminders, short-cuts and
identify what's new Complete
chapter exercises with many
multi-chapter "REUSE"
problems Well suited for a two
or three course sequence
Tools for Design is intended to*

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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

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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 •

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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

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*reuse design information
between AutoCAD and
Autodesk Inventor • How to
combine parts into assemblies
including assembly modeling
with a LEGO®
MINDSTORMS® Education*

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*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*

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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. Table

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of Contents Introduction:

Getting Started 1.

Fundamentals of AutoCAD 2.

Basic Object Construction and

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Geometric Construction and

Editing Tools - AutoCAD 4.

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*Orthographic Views in
Multiview Drawings - AutoCAD
5. Basic Dimensioning and
Notes - AutoCAD 6. Pictorials
and Sketching 7. Parametric
Modeling Fundamentals -
Autodesk Inventor 8.*

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*Constructive Solid Geometry
Concepts - Autodesk Inventor
9. Model History Tree -
Autodesk Inventor 10.
Parametric Constraints
Fundamentals - Autodesk
Inventor 11. Geometric*

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*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.*

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*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 -*

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*Autodesk Inventor Stress
Analysis Module*

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first-semester drafting students are interested in careers in the architectural design field, and that a traditional technical drawing text, which focuses solely on mechanical drawing projects,

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holds little interest for these students. The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of the curriculum and increase student interest and,

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it is hoped, future enrollments. Focused around a hotel suite project, AutoCAD 2021 for the Interior Designer provides the Interior Design student with a non-intimidating, tutorial based approach to learning the

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AutoCAD program. It accomplishes this by taking students that have no computer design experience from simple commands to complete projects in this single-semester sized text. This well

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organized and progressive approach to learning AutoCAD sets this text apart from others. To support all users, this book covers AutoCAD for both Macs and PCs. The emphasis of this book is on

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*easy to understand
descriptions and instructions,
allowing the non-technical,
artistic, visual learning
Interior Design student to
quickly get past the fear of
using the computer to produce*

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drawings. The focus is entirely on the use of AutoCAD for the Interior Design field and not simply architectural drawings. Chapters alternate between command descriptions, which are organized by a command

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*set category, and tutorials.
This allows students to easily
refer back to command
descriptions without hunting
through a tutorial that
introduces commands as it
progresses. The emphasis is on*

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the practical use of commands using the AutoCAD ribbon workspace, rather than the multiple (and seldom used) command options. Multiple tutorials of the hotel suite, which includes floor plan,

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elevation views, dimensioning, and plotting, provide a practical application of the commands learned in the preceding chapters.

Completely dimensioned drawings are provided at the

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beginning of each tutorial so that the advanced student, or an instructor led class, can complete them without going through the step-by-step process. This textbook is classroom proven, and

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*relevant interior design
homework problems are
provided. After completing this
book, the student will be able
to create all their 2-D Interior
Design work using AutoCAD.
A Student Guide for In-Depth*

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*Coverage of AutoCAD's
Commands and Features
AutoCAD 2019 Instructor
Engineering Graphics
Essentials with AutoCAD 2018
Instruction
Technical Drawing 101 with*

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AutoCAD 2017

Technical Drawing 101 with

AutoCAD 2018

***The Official Guide to
Certified SOLIDWORKS***

***Associate Exams: CSWA, CSDA,
CSWSA-FEA is written to
assist the SOLIDWORKS user***

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to pass the associate level exams. Information is provided to aid a person to pass the Certified SOLIDWORKS Associate (CSWA), Certified SOLIDWORKS Sustainable Design Associate (CSDA) and the Certified

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***SOLIDWORKS Simulation
Associate Finite Element
Analysis (CSWSA FEA) exam.
There are three goals for
this book. The primary goal
is not only to help you pass
the CSWA, CSDA and CSWSA-FEA
exams, but also to ensure***

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that you understand and comprehend the concepts and implementation details of the three certification processes. The second goal is to provide the most comprehensive coverage of CSWA, CSDA and CSWSA-FEA

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*exam related topics
available, without too much
coverage of topics not on
the exam. The third and
ultimate goal is to get you
from where you are today to
the point that you can
confidently pass the CSWA,*

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***CSDA and the CSWSA-FEA exam.
The Certified SOLIDWORKS
Associate (CSWA)
certification indicates a
foundation in and apprentice
knowledge of 3D CAD design
and engineering practices
and principles. Passing this***

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exam provides students the chance to prove their knowledge and expertise and to be part of a worldwide industry certification standard. The Certified SOLIDWORKS Sustainable Design Associate (CSDA)

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certification indicates a foundation in and apprentice knowledge of demonstrating an understanding in the principles of environmental assessment and sustainable design. The Certified SOLIDWORKS Simulation

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***Associate - Finite Element
Analysis (CSWSA-FEA)
certification indicates a
foundation in and apprentice
knowledge of demonstrating
an understanding in the
principles of stress
analysis and the Finite***

Element Method (FEM).

Technical Drawing 101 covers topics ranging from the most basic, such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD dimension style containing

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***the style settings defined
by the ASME Y14.5-2009
Dimensioning and Tolerancing
standard. But unlike the
massive technical drawing
reference texts on the
market, Technical Drawing
101 aims to present just the***

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right mix of information and projects that can be reasonably covered by faculty, and assimilated by students, in one semester. Both mechanical and architectural projects are introduced to capture the

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interest of more students and to offer a broader appeal. The authors have also created extensive video training (120 videos, 17 hours total) that is included with every copy of the book. In these videos

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the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. The videos progress to more advanced topics where the authors

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*walk students through
completing several of the
projects in the book. The
CAD portion of the text
incorporates drafting theory
whenever possible and covers
the basics of drawing setup
(units, limits, and layers),*

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***the tools of the Draw,
Modify, and Dimension
toolbars, and the
fundamentals of 3D modeling.
By focusing on the
fundamental building blocks
of CAD, Technical Drawing
101 provides a solid***

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foundation for students going on to learn advanced CAD concepts and techniques (paper space, viewports, xrefs, annotative scaling, etc.) in intermediate CAD courses. In recognition of the diverse career interests

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of our students, Technical Drawing 101 includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project. We include architectural drawing

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because our experience has shown that many (if not most) first-semester drafting students are interested in careers in the architectural design field, and that a traditional technical drawing text,

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which focuses solely on mechanical drawing projects, holds little interest for these students. The multidisciplinary approach of this text and its supporting materials are intended to broaden the

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appeal of the curriculum and increase student interest and, it is hoped, future enrollments.

Engineering Graphics Essentials Fourth Edition gives students a basic understanding of how to

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create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners. This book also

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features an independent learning DVD containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to

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interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics. The enclosed independent learning DVD allows the learner to go through the topics of the

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book independently. The main content of the DVD contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive

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examples that allow the learner to go through the instructor led and in class student exercises found in the book on their own. Video examples are also included to supplement the learning process. DVD Content:

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***Summary pages with voice
over lecture content
Interactive exercises Video
examples Supplemental
problem solutions
This book is your AutoCAD
2015 Instructor. The
objective of this book is to***

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provide you with extensive knowledge of AutoCAD, whether you are taking an instructor-led course or learning on your own. AutoCAD 2015 Instructor maintains the pedagogy and in-depth coverage that have

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always been the hallmark of the Leach texts. As the top-selling university textbook for almost a decade, the AutoCAD Instructor series continues to deliver broad coverage of AutoCAD in a structured, easy-to-

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***comprehend manner. AutoCAD
2015 Instructor is command-
oriented, just like AutoCAD.
Chapters are structured
around related commands,
similar to the organization
of AutoCAD's menu system.
The sequence of chapters***

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starts with fundamental drawing commands and skills and progresses to more elaborate procedures and specialized applications. The writing style introduces small pieces of information explained in simple form,

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and then builds on that knowledge to deliver more complex drawing strategies, requiring a synthesis of earlier concepts. Over 2000 figures illustrate the commands, features, and ideas. AutoCAD 2015

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Solutions

Instructor is an ideal reference guide, unlike tutorial-oriented books where specific information is hard to relocate. Because these chapters focus on related commands, and complete coverage for each

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command is given in one place, the commands, procedures, and applications are easy to reference. Tabbed pages help locate tables, lists, appendices, and the comprehensive index. Engineering & Computer

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***Graphics Workbook Using
SOLIDWORKS 2018***

***Visualization, Modeling, and
Graphics for Engineering
Design***

***Engineering Graphics Text
and Workbook (Series 1.2)
A Cyber-Physical Systems***

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Approach

AutoCAD 2022 Instructor

*Engineering Graphics Essentials
with AutoCAD 2018 Instruction
gives students a basic
understanding of how to create
and read engineering drawings*

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by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of

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AutoCAD 2018. This book features independent learning material containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed

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to encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The independent learning material

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allows students to go through the topics of the book independently. The main content of the material contains pages that summarize the topics covered in the book. Each page has voice over content

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that simulates a lecture environment. There are also interactive examples that allow students to go through the instructor led and in-class student exercises found in the book on their own. Video

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examples are also included to supplement the learning process.

This book is your AutoCAD 2020 Instructor. The objective of this book is to provide you with extensive knowledge of

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AutoCAD, whether you are taking an instructor-led course or learning on your own.

AutoCAD 2020 Instructor maintains the pedagogy and in-depth coverage that have always been the hallmark of the

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Leach texts. As the top-selling university textbook for almost a decade, the AutoCAD Instructor series continues to deliver broad coverage of AutoCAD in a structured, easy-to-comprehend manner. AutoCAD 2020

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Instructor is command-oriented, just like AutoCAD. Chapters are structured around related commands, similar to the organization of AutoCAD's menu system. The sequence of chapters starts with

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*fundamental drawing
commands and skills and then
progresses to more elaborate
procedures and specialized
applications. The writing style
introduces small pieces of
information explained in simple*

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form, and then builds on that knowledge to deliver more complex drawing strategies, requiring a synthesis of earlier concepts. Over 2000 figures illustrate the commands, features, and ideas. AutoCAD

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2020 Instructor is an ideal reference guide, unlike tutorial-oriented books where specific information is hard to relocate. Because these chapters focus on related commands, and complete coverage for each

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command is given in one place, the commands, procedures, and applications are easy to reference. Tabbed pages help locate tables, lists, appendices, and the comprehensive index. What makes this book unique? •

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*In depth coverage of AutoCAD
2020 commands and features •
Command Tables indicate
where to locate and how to start
each command • TIP markers in
the margin provide important
tips, notes, reminders, short-*

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*cuts and identify what's new •
Complete chapter exercises
with many multi-chapter
"REUSE" problems • Well suited
for a two or three course
sequence Online Resources
Your purchase of AutoCAD 2020*

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Instructor includes three free exclusive bonus chapters that are available by redeeming the unique access code found on the inside of the front cover. These bonus chapters cover geometric constraints, dynamic

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blocks and express tools.

*Chapter exercises drawings and
additional student questions are
available for free.*

*Principles and Practices An
Integrated Approach to
Engineering Graphics and*

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AutoCAD 2021 combines an introduction to AutoCAD 2021 with a comprehensive coverage of engineering graphics principles. By adopting this textbook, you will no longer need to adopt separate CAD and

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engineering graphics books for your course. Not only will this unified approach give your course a smoother flow, your students will also save money on their textbooks. What's more, the tutorial exercises in

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this text have been expanded to cover the performance tasks found on the AutoCAD 2021 Certified User Examination. The primary goal of Principles and Practices An Integrated Approach to Engineering

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Graphics and AutoCAD 2021 is to introduce the aspects of engineering graphics with the use of modern Computer Aided Design/Drafting software - AutoCAD 2021. This text is intended to be used as a

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training guide for students and professionals. The chapters in the text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings. This

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text takes a hands-on, exercise-intensive approach to all the important concepts of Engineering Graphics, as well as in depth discussions of CAD techniques. This textbook contains a series of thirteen

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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. The CAD techniques and concepts

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discussed in the text are also designed to serve as the foundation to the more advanced parametric feature-based CAD packages, such as Autodesk Inventor. After completing this text your

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students will be prepared to pass the AutoCAD Certified User Examination. Certified User Reference Guides located at the front of the book and in each chapter show where these performance tasks are covered.

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Engineering Graphics Essentials with AutoCAD 2017 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand

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manner. It covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of AutoCAD 2017. This book features independent learning

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*material containing
supplemental content to further
reinforce these principles.
Through its many different
exercises this text is designed
to encourage students to
interact with the instructor*

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during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The independent learning material allows students to go through the topics of the book

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independently. The main content of the material contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also

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interactive examples that allow students to go through the instructor led and in-class student exercises found in the book on their own. Video examples are also included to supplement the learning

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process.

Technical Graphics

*Technical Drawing 101 with
AutoCAD 2021*

*Technical Drawing 101 with
AutoCAD 2020*

Drawing and Detailing with

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SolidWorks 2014

AutoCAD 2015 Instructor

***Parametric Modeling with
Autodesk Inventor 2022
contains a series of
seventeen 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***

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***concepts. The lessons
guide the user from
constructing basic shapes
to building intelligent
mechanical designs, to
creating multi-view
drawings and assembly***

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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

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in total. This video training parallels the exercises found in the text. However, the videos do more than just provide you with click by click instructions. Author Luke Jumper also

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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

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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.***

***This book is your AutoCAD
2022 Instructor. The***

objective of this book is to provide you with extensive knowledge of AutoCAD, whether you are taking an instructor-led course or learning on your own. AutoCAD 2022 Instructor

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***maintains the pedagogy
and in-depth coverage that
have always been the
hallmark of the Leach texts.
As the top-selling
university textbook for
more than a decade, the***

AutoCAD Instructor series continues to deliver broad coverage of AutoCAD in a structured, easy-to-comprehend manner. AutoCAD 2022 Instructor is command-oriented, just like

AutoCAD. Chapters are structured around related commands, similar to the organization of AutoCAD's menu system. The sequence of chapters starts with fundamental drawing

commands and skills and then progresses to more elaborate procedures and specialized applications. The writing style introduces small pieces of information explained in simple form,

and then builds on that knowledge to deliver more complex drawing strategies, requiring a synthesis of earlier concepts. Over 2000 figures illustrate the commands,

features, and ideas.

AutoCAD 2022 Instructor is an ideal reference guide, unlike tutorial-oriented books where specific information is hard to relocate. Because these

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chapters focus on related commands, and complete coverage for each command is given in one place, the commands, procedures, and applications are easy to

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reference. Tabbed pages help locate tables, lists, appendices, and the comprehensive index. What makes this book unique? • In depth coverage of AutoCAD 2022 commands

and features • Command Tables indicate where to locate and how to start each command • TIP markers in the margin provide important tips, notes, reminders, short-

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***cuts and identify what's
new • Complete chapter
exercises with many multi-
chapter “REUSE” problems
• Well suited for a two or
three course sequence
Table of Contents 1.***

***Getting Started 2. Working
with Files 3. Draw
Command Concepts 4.
Selection Sets 5. Helpful
Commands 6. Basic
Drawing Setup 7. Object
Snap and Object Snap***

***Tracking 8. Draw
Commands | 9. Modify
Commands | 10. Viewing
Commands 11. Layers and
Object Properties 12.
Advanced Drawing Setup
13. Layouts and Viewports***

- 14. Printing and Plotting**
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- 16. Modify Commands II**
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***DesignCenter, and Tool
Palettes 22. Block
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**27. Auxiliary Views 28.
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Variables 30. Xreferences
31. Object Linking and
Embedding (OLE) 32.
Advanced Layouts,**

***Annotative Objects, and
Plotting 33. 3D Basics,
Navigation, and Visual
Styles 34. User Coordinate
Systems 35. Solid Model
Construction 36. Solid
Model Editing 37. Creating***

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***2D Drawings from 3D
Models Appendices Index
Chapter Exercise Index
A new book for a new
generation of engineering
professionals,
Visualization, Modeling,***

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***and Graphics for
Engineering Design was
written from the ground up
to take a brand-new
approach to graphic
communication within the
context of engineering***

design and creativity. With a blend of modern and traditional topics, this text recognizes how computer modeling techniques have changed the engineering design process. From this

new perspective, the text is able to focus on the evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis

techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the what to explain the why of engineering graphics.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The primary goal of

AutoCAD 2022 Tutorial First Level 2D Fundamentals is to introduce the aspects of Computer Aided Design and Drafting (CADD). This text is intended to be used as a training guide for students

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and professionals. This text covers AutoCAD 2022 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview

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drawings. This textbook contains a series of twelve tutorial style lessons designed to introduce beginning CAD users to AutoCAD 2022. It takes a hands-on, exercise-

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intensive approach to all the important 2D CAD techniques and concepts. This text is also helpful to AutoCAD users upgrading from a previous release of the software. The new

improvements and key enhancements of the software are incorporated into the lessons. The 2D-CAD techniques and concepts discussed in this text are also designed to

serve as the foundation to the more advanced parametric feature-based CAD packages such as Autodesk Inventor. The basic premise of this book is that the more designs

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***you create using AutoCAD
2022, the better you learn
the software. With this in
mind, each lesson
introduces a new set of
commands and concepts,
building on previous***

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lessons. This book is intended to help readers establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering. Video Training

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Included with every new copy of AutoCAD 2022 Tutorial First Level 2D Fundamentals is access to extensive video training. There are forty-six videos with more than five hours

of training in total. This video training parallels the exercises found in the text and is designed to be watched first before following the instructions in the book. However, the

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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

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having him there guiding you through the book. These videos will provide you with a wealth of information and bring the text to life. They are also an invaluable resource for

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people who learn best through a visual experience. These videos deliver a comprehensive overview of the 2D tools found in AutoCAD and perfectly complement and

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***reinforce the exercises in
the book.***

***AutoCAD 2020 Instructor
SOLIDWORKS 2021 and
Engineering Graphics
Technical Drawing 101 with
AutoCAD 2014***

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Solutions

***Text and Independent
Learning Dvd
Engineering Graphics
Essentials***

The book is designed as a learning tool to help the aspiring engineer learn the language of

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engineering graphics. In this regard, this book is hardly unique, as there have been literally hundreds of books published in the past that had a similar goal. The main challenge faced by engineering graphics

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books comes from the difficulty of representing and describing three dimensional information on paper, which is a consequence of the two dimensional nature of printed materials. What makes this book invaluable is the use of

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Augmented Reality, a technology that will allow you to escape the limitations of traditional materials enabling you, the student, to truly visualize the objects being described in full 3D. To take full advantage of this

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book you will need a smartphone, tablet or computer with a web camera, along with the software or apps provided*. Many parts of the book are linked to specific augmented reality content through a series of black

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and white markers that have been seamlessly integrated throughout the pages. In order to experience the content, your device's camera must be pointed at these markers. The main marker, available at the

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beginning of the book, is used to interact with the augmented reality models, which will be rendered in real time in your device's screen. * If you do not have an iOS device, Android device or a computer with a

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webcam, SolidWorks files of the models used throughout the book are included on the CD. In addition, STL files have been provided so the models can be opened using your solid modeling CAD package of choice

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or printed using a 3D printer.
Engineering Graphics with
SOLIDWORKS 2021 is written to
assist students, designers,
engineers and professionals who
are new to SOLIDWORKS. The
book combines the fundamentals

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of engineering graphics and dimensioning practices with a step-by-step project based approach to learning SOLIDWORKS. The book is divided into four sections with 11 Chapters. Chapters 1 - 3: Explore

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the history of engineering graphics, manual sketching techniques, orthographic projection, Third vs. First angle projection, multi-view drawings, dimensioning practices (ASME Y14.5-2009 standard), line type,

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fit type, tolerance, fasteners in general, general thread notes and the history of CAD leading to the development of SOLIDWORKS. Chapters 4 - 9: Comprehend the SOLIDWORKS User Interface and

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CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and

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Revision tables using basic and advanced features. Follow the step-by-step instructions in over 80 activities to develop eight parts, four sub-assemblies, three drawings and six document templates. Chapter 10: Prepare

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for the Certified SOLIDWORKS Associate (CSWA) exam.

Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam.

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Chapter 11: Provide a basic understanding between Additive vs. Subtractive manufacturing. Discuss Fused Filament Fabrication (FFF), STereoLithography (SLA), and Selective Laser Sintering (SLS)

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printer technology. Select suitable filament material. Comprehend 3D printer terminology. Knowledge of preparing, saving, and printing a model on a Fused Filament Fabrication 3D printer.

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Information on the Certified SOLIDWORKS Additive Manufacturing (CSWA-AM) exam. Review individual features, commands, and tools using SOLIDWORKS Help. The chapter exercises analyze and examine

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usage competencies based on the chapter objectives. The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu. Desired outcomes and usage competencies are listed for each

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project. Know your objectives up front. Follow the step-by step procedures to achieve your design goals. Work between multiple documents, features, commands, and properties that represent how engineers and

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designers utilize SOLIDWORKS in industry. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers, department managers, vendors and

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manufacturers.

This book is also available through the Introductory Engineering Custom Publishing System. If you are interested in creating a course-pack that includes chapters from this

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book, you can get further information by calling 212-850-6272 or sending email inquiries to engineer@jwiley.com. Numerous new design, drafting and analytical tools have become

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available and many of these are computer based. This text meets the needs of today's technical graphics programs by addressing these new technologies with critical examinations, thereby ensuring

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the most up-to-date assessment of their design and use. Topics covered include geometric construction; sections and conventions; dimensions and tolerances; production drawings, pictorial drawings; orthographic

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projection; technical sketching;
dimensioning for production; 3-D
geometry concepts and
applications.

Engineering Design with
SOLIDWORKS 2021 is written to
assist students, designers,

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engineers and professionals. The book provides a solid foundation in SOLIDWORKS by utilizing projects with step-by-step instructions for the beginner to intermediate SOLIDWORKS user featuring machined, plastic and

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sheet metal components.

Desired outcomes and usage competencies are listed for each project. The book is divided into five sections with 11 projects.

Project 1 - Project 6: Explore the SOLIDWORKS User Interface and

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CommandManager, Document and System properties, simple and complex parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using

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basic and advanced features. Additional techniques include the edit and reuse of features, parts, and assemblies through symmetry, patterns, configurations, SOLIDWORKS 3D ContentCentral and the

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SOLIDWORKS Toolbox. Project 7: Understand Top-Down assembly modeling and Sheet Metal parts. Develop components In-Context with InPlace Mates, along with the ability to import parts using the

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Top-Down assembly method.
Convert a solid part into a Sheet
Metal part and insert and apply
various Sheet Metal features.
Project 8 - Project 9: Recognize
SOLIDWORKS Simulation and
Intelligent Modeling techniques.

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Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate - Finite Element Analysis (CSWSA-FEA) exam. Apply design intent and

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intelligent modeling techniques in a sketch, feature, part, plane, assembly and drawing. Project 10: Comprehend the differences between additive and subtractive manufacturing. Understand 3D printer terminology along with a

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working knowledge of preparing, saving, and printing CAD models on a low cost printer. Project 11: Review the Certified SOLIDWORKS Associate (CSWA) program. Understand the curriculum and categories of the

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CSWA exam and the required model knowledge needed to successfully take the exam. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers,

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department managers, vendors and manufacturers. These professionals are directly involved with SOLIDWORKS every day. Their responsibilities go far beyond the creation of just a 3D model.

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Parametric Modeling with
Autodesk Inventor 2022
Engineering Graphics Essentials
with AutoCAD 2017 Instruction
Tools for Design Using AutoCAD
2022 and Autodesk Inventor 2022
AutoCAD 2022 Tutorial First

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Level 2D Fundamentals

Engineering Graphics Technical

Sketching

DraftSight is a free, two-dimensional Computer Aided Design (CAD) program that can create, edit and view DWG files. DraftSight is a

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fully featured, free alternative to other, more expensive 2D CAD software packages. The primary goal of Exploring DraftSight is to introduce the aspects of Engineering Graphics with the use of modern Computer

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Aided Design package –
DraftSight. 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

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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-

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depth discussions of CAD techniques. This textbook contains a series of twelve chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic

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language used in all branches of technical industry. The CAD techniques and concepts discussed in this text are also designed to serve as the foundation to the more advanced parametric feature-based CAD

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packages such as SolidWorks and CATIA. This book does not attempt to cover all of DraftSight's features, only to provide an introduction to the software. It is intended to help you establish a good basis for

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exploring and growing in the
exciting field of Computer
Aided Engineering.

Visualization and
Engineering Design Graphics
with Augmented Reality
Second EditionSDC
Publications

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An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing

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information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally

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encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic

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lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from

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their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a

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subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new

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exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer

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scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

BeagleBone is an inexpensive web server, Linux desktop,

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and electronics hub that includes all the tools you need to create your own projects—whether it's robotics, gaming, drones, or software-defined radio. If you're new to BeagleBone Black, or want to explore

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more of its capabilities,
this cookbook provides
scores of recipes for
connecting and talking to
the physical world with this
credit-card-sized computer.
All you need is minimal
familiarity with computer

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programming and electronics. Each recipe includes clear and simple wiring diagrams and example code to get you started. If you don't know what BeagleBone Black is, you might decide to get one after scanning these

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recipes. Learn how to use BeagleBone to interact with the physical world Connect force, light, and distance sensors Spin servo motors, stepper motors, and DC motors Flash single LEDs, strings of LEDs, and

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matrices of LEDs Manage real-time input/output (I/O) Work at the Linux I/O level with shell commands, Python, and C Compile and install Linux kernels Work at a high level with JavaScript and the BoneScript library Expand

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BeagleBone's functionality
by adding capes Explore the
Internet of Things
Engineering Graphics
Essentials with AutoCAD 2022
Instruction
Technical Drawing 101 with
AutoCAD 2023

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Principles and Practice An
Integrated Approach to
Engineering Graphics and
AutoCAD 2021

Introduction to Embedded
Systems, Second Edition

Principles and Practice An
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Engineering Graphics and
AutoCAD 2022

Technical Drawing 101 covers topics ranging from the most basic, such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD

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dimension style containing the style settings defined by the ASME Y14.5-2009 Dimensioning and Tolerancing standard. But unlike the massive technical drawing reference texts on the market, Technical Drawing 101 aims to

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present just the right mix of information and projects that can be reasonably covered by faculty, and assimilated by students, in one semester. Both mechanical and architectural projects are introduced to capture the interest of more

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students and to offer a broader appeal. The authors have also created extensive video training (137 videos, 18.5 hours total) that is included with every copy of the book. In these videos the authors start off by getting students

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comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. The videos progress to more advanced topics where the authors walk students through completing several of the projects

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in the book. The CAD portion of the text incorporates drafting theory whenever possible and covers the basics of drawing setup (units, limits, and layers), the tools of the Draw, Modify, and Dimension toolbars, and the fundamentals of

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3D modeling. By focusing on the fundamental building blocks of CAD, Technical Drawing 101 provides a solid foundation for students going on to learn advanced CAD concepts and techniques (paper space,

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viewports, xrefs, annotative scaling, etc.) in intermediate CAD courses. In recognition of the diverse career interests of our students, Technical Drawing 101 includes projects in which students create working drawings for a mechanical

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assembly as well as for an architectural project. We include architectural drawing because our experience has shown that many (if not most) first-semester drafting students are interested in careers in the architectural design field, and

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that a traditional technical drawing text, which focuses solely on mechanical drawing projects, holds little interest for these students. The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of

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the curriculum and increase student interest and, it is hoped, future enrollments.

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Software and Hardware Problems
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