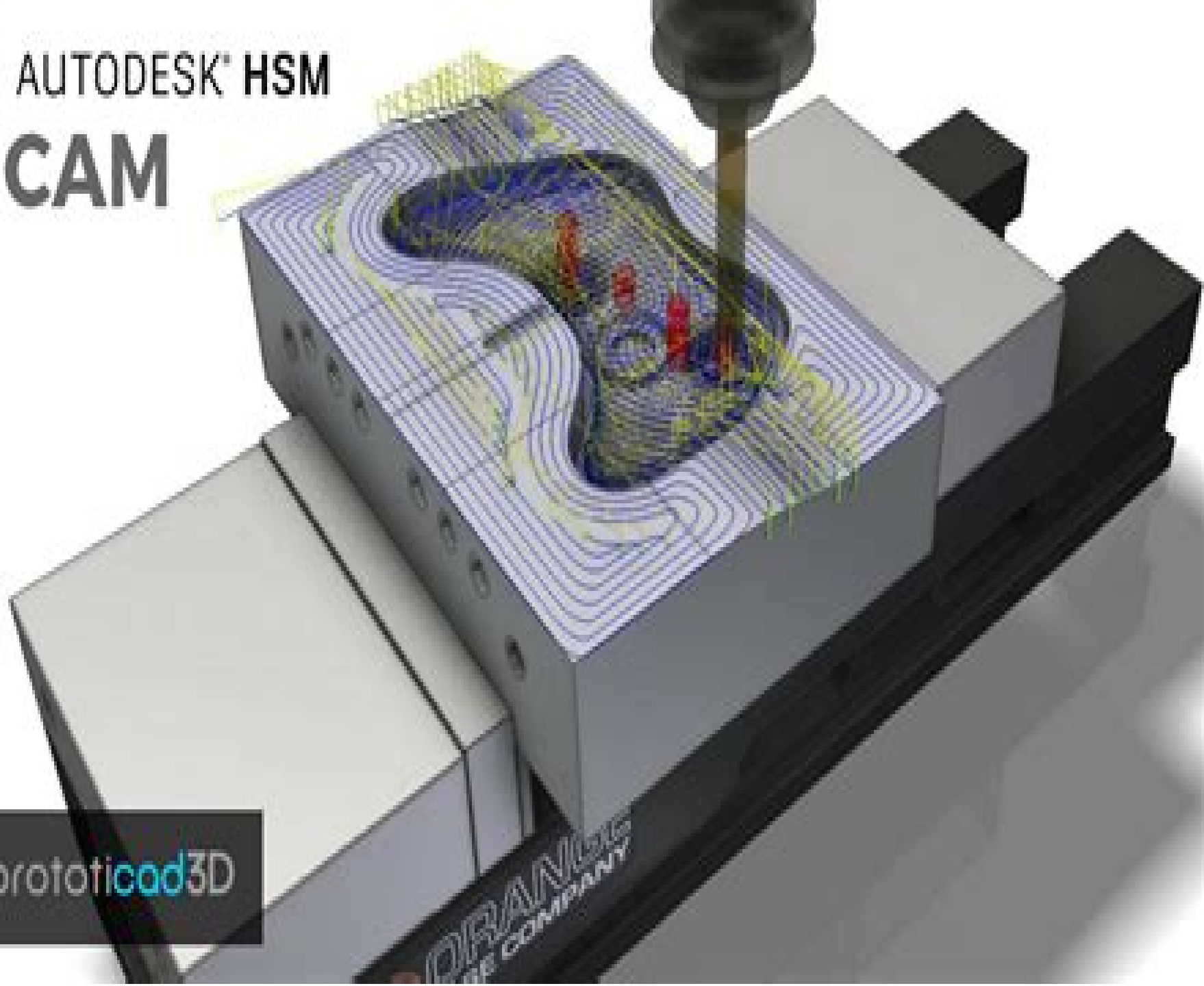


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Machining Simulation Using SOLIDWORKS CAM 2023 Kuang-Hua Chang, 2023 Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Covers the core concepts and most frequently used commands in SOLIDWORKS CAM Designed for users new to SOLIDWORKS CAM with basic knowledge of manufacturing processes Incorporates cutter location data verification by reviewing the generated G codes Includes a chapter on third party CAM Modules This book will teach you all the important concepts and steps used to conduct machining simulations using SOLIDWORKS CAM SOLIDWORKS CAM is a parametric feature based machining simulation software offered as an add in to SOLIDWORKS It integrates design and manufacturing in one application connecting design and manufacturing teams through a common software tool that facilitates product design using 3D solid models By carrying out machining simulation the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features of part manufacturing can be detected and addressed while the product design is still being finalized In addition machining related problems can be detected and eliminated before mounting a stock on a CNC machine and manufacturing cost can be estimated using the machining time estimated in the machining simulation This book is intentionally kept simple It s written to help you become familiar with the practical applications of conducting machining simulations in SOLIDWORKS CAM This book provides you with the basic concepts and steps needed to use the software as well as a discussion of the G codes generated After completing this book you should have a clear understanding of how to use SOLIDWORKS CAM for machining simulations and should be able to apply this knowledge to carry out machining assignments on your own product designs In order to provide you with a more comprehensive understanding of machining simulations the book discusses NC numerical control part programming and verification as well as introduces applications that involve bringing the G code post processed by SOLIDWORKS CAM to a HAAS CNC mill and lathe to physically cut parts This book points out important practical factors when transitioning from virtual to physical machining Since the machining capabilities offered in the 2023 version of SOLIDWORKS CAM are somewhat limited this book introduces third party CAM modules that are seamlessly integrated into SOLIDWORKS including CAMWorks HSMWorks and Mastercam for SOLIDWORKS This book covers basic concepts frequently used commands and options required for you to advance from a novice to an intermediate level SOLIDWORKS CAM user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting a machine and cutting tools defining machining parameters such as feed rate spindle speed depth of cut and so on generating and simulating toolpaths and post processing CL data to output G code for support of physical machining The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples Both milling and turning operations are included One of the unique features of this book is the incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand

how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful

Machining Simulation Using SOLIDWORKS CAM 2020 Kuang-Hua Chang,2020-07-15 This book will teach you all the important concepts and steps used to conduct machining simulations using SOLIDWORKS CAM SOLIDWORKS CAM is a parametric feature based machining simulation software offered as an add in to SOLIDWORKS It integrates design and manufacturing in one application connecting design and manufacturing teams through a common software tool that facilitates product design using 3D solid models By carrying out machining simulation the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features of part manufacturing can be detected and addressed while the product design is still being finalized In addition machining related problems can be detected and eliminated before mounting a stock on a CNC machine and manufacturing cost can be estimated using the machining time estimated in the machining simulation This book is intentionally kept simple It s written to help you become familiar with the practical applications of conducting machining simulations in SOLIDWORKS CAM This book provides you with the basic concepts and steps needed to use the software as well as a discussion of the G codes generated After completing this book you should have a clear understanding of how to use SOLIDWORKS CAM for machining simulations and should be able to apply this knowledge to carry out machining assignments on your own product designs In order to provide you with a more comprehensive understanding of machining simulations the book discusses NC numerical control part programming and verification as well as introduces applications that involve bringing the G code post processed by SOLIDWORKS CAM to a HAAS CNC mill and lathe to physically cut parts This book points out important practical factors when transitioning from virtual to physical machining Since the machining capabilities offered in the 2020 version of SOLIDWORKS CAM are somewhat limited this book introduces third party CAM modules that are seamlessly integrated into SOLIDWORKS including CAMWorks HSMWorks and Mastercam for SOLIDWORKS This book covers basic concepts frequently used commands and options required for you to advance from a novice to an intermediate level SOLIDWORKS CAM user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting a machine and cutting tools defining machining parameters such as feed rate spindle speed depth of cut and so on generating and simulating toolpaths and post processing CL data to output G code for support of physical machining The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples Both milling and turning operations are included One of the unique features of this book is the incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful

Machining Simulation Using SOLIDWORKS CAM 2019 Kuang-Hua Chang,2019-06 This book will teach you all the important concepts and steps used to conduct

machining simulations using SOLIDWORKS CAM SOLIDWORKS CAM is a parametric feature based machining simulation software offered as an add in to SOLIDWORKS It integrates design and manufacturing in one application connecting design and manufacturing teams through a common software tool that facilitates product design using 3D solid models By carrying out machining simulation the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features of part manufacturing can be detected and addressed while the product design is still being finalized In addition machining related problems can be detected and eliminated before mounting a stock on a CNC machine and manufacturing cost can be estimated using the machining time estimated in the machining simulation This book is intentionally kept simple It s written to help you become familiar with the practical applications of conducting machining simulations in SOLIDWORKS CAM This book provides you with the basic concepts and steps needed to use the software as well as a discussion of the G codes generated After completing this book you should have a clear understanding of how to use SOLIDWORKS CAM for machining simulations and should be able to apply this knowledge to carry out machining assignments on your own product designs In order to provide you with a more comprehensive understanding of machining simulations the book discusses NC numerical control part programming and verification as well as introduces applications that involve bringing the G code post processed by SOLIDWORKS CAM to a HAAS CNC mill and lathe to physically cut parts This book points out important practical factors when transitioning from virtual to physical machining Since the machining capabilities offered in the 2019 version of SOLIDWORKS CAM are somewhat limited this book introduces third party CAM modules that are seamlessly integrated into SOLIDWORKS including CAMWorks HSMWorks and Mastercam for SOLIDWORKS This book covers basic concepts frequently used commands and options required for you to advance from a novice to an intermediate level SOLIDWORKS CAM user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting a machine and cutting tools defining machining parameters such as feedrate spindle speed depth of cut and so on generating and simulating toolpaths and post processing CL data to output G code for support of physical machining The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples Both milling and turning operations are included One of the unique features of this book is the incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful Who is this book for This book should serve well for self learners A self learner should have basic physics and mathematics background preferably a bachelor or associate degree in science or engineering We assume that you are familiar with basic manufacturing processes especially milling and turning And certainly we expect that you are familiar with SOLIDWORKS part and assembly modes A self learner should be able to complete the fourteen lessons of this book in about fifty hours This book also serves well for class instruction Most likely it

will be used as a supplemental reference for courses like CNC Machining Design and Manufacturing Computer Aided Manufacturing or Computer Integrated Manufacturing This book should cover five to six weeks of class instruction depending on the course arrangement and the technical background of the students

Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) Eva M. Rubio, Ana M. Camacho, 2020-07-03 This book derives from the Special Issue of the Manufacturing Engineering Society 2019 SIMES 2019 that has been launched as a joint issue of the journals Materials and Applied Sciences The 29 contributions published in this Special Issue of Materials present cutting edge advances in the field of manufacturing engineering focusing on additive manufacturing and 3D printing advances and innovations in manufacturing processes sustainable and green manufacturing manufacturing of new materials metrology and quality in manufacturing industry 4 0 design modeling and simulation in manufacturing engineering and manufacturing engineering and society Among them the topic Additive Manufacturing and 3D Printing has attracted a large number of contributions in this journal due to its widespread popularity and potential

Up and Running with AutoCAD 2018 Elliot J. Gindis, Robert C. Kaebisch, 2017-08-11 Up and Running with AutoCAD 2018 2D Drafting and Design provides a combination of step by step instruction examples and insightful explanations on the topic It emphasizes core concepts and practical application of AutoCAD in engineering architecture and design Equally useful in instructor led classroom training self study or as a professional reference the book is written by a long time AutoCAD professional and instructor who presents topics that work in the industry and classroom The book has been pared down to focus on 2D drafting and design making it appropriate for a one semester course Strips away complexities and reduces AutoCAD to basic easy to understand concepts Teaches the essentials of operating AutoCAD first immediately building student confidence Documents all basic commands giving the student what they need to type in and how AutoCAD responds Includes new exercises and projects for the AutoCAD 2018 version Offers online bonus content on AutoCAD 3D basics

Up and Running with AutoCAD 2019 Elliot J. Gindis, Robert C. Kaebisch, 2018-07-20 Up and Running with AutoCAD 2019 2D Drafting and Design focuses on 2D drafting and design making it more appropriate for a one semester course The book provides step by step instruction examples and insightful explanations From the beginning the book emphasizes core concepts and the practical application of AutoCAD in engineering architecture and design Equally useful in instructor led classroom training self study or as a professional reference the book is written with the user in mind by a long time AutoCAD professional and instructor based on what works in the industry and the classroom Strips away complexities and reduces AutoCAD to easy to understand basic concepts Teaches the essentials of operating AutoCAD first immediately building student confidence Documents commands in a step by step explanation including what the student needs to type in and how AutoCAD responds Includes new exercises and projects for the AutoCAD 2019 version Offers online bonus content on AutoCAD 3D basics

Flexible Automation and Intelligent Manufacturing: Establishing Bridges for More Sustainable Manufacturing Systems Francisco J. G.

Silva, António B. Pereira, Raul D. S. G. Campilho, 2023-08-23 This book reports on cutting edge research and developments in manufacturing giving a special emphasis to solutions fostering automation and sustainability Topics cover manufacturing process optimization remanufacturing machines and mechanical design CAD CAM CAE materials characterization and processing measurement and predictive maintenance techniques Further topics include artificial intelligence and IoT in manufacturing robotics and cutting edge issues in Industry 4.0 Based on proceedings of the 32nd edition of the International Conference on Flexible Automation and Intelligent Manufacturing FAIM 2023 held on June 18-22 2023 in Porto Portugal this first volume of a 2 volume set provides academics and professionals with extensive technical information on trends and technologies in manufacturing yet it also discusses challenges and practice oriented experience in all the above mentioned areas

Autodesk Inventor CAM 2021 ASCENT - Center for Technical Knowledge, 2020-11-06 The Autodesk R Inventor R CAM 2021 Milling Fundamentals guide focuses on instructing new users on how to use the Inventor CAM add on to create milling toolpaths The guide begins with an introduction to the overall Inventor interface and explains how to manipulate your 3D model to change its orientation and view display Through additional hands on practice intensive curriculum you will learn the key skills and knowledge required to take the 3D model set it up in the CAM environment and assign the 2D and 3D milling toolpaths needed to generate the CNC code required by milling machines Topics Covered Navigate the Inventor software interface to locate and execute commands Use the model orientation commands to pan zoom rotate and look at a model Assign visual styles to your models Locate modify and create tools in the Tool Library Set up machining operations using Inventor CAM Create 2D Milling 3D Milling and Drilling toolpaths using the Inventor CAM interface Use the Simulation option to visualize toolpaths Import a tool library Create a toolpath template Post process an Inventor CAM setup to output the CNC code required to machine a model Prerequisites Access to the 2021.1 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e.g. 2020 As an introductory guide Autodesk R Inventor R CAM 2021 Milling Fundamentals does not assume prior knowledge of Autodesk Inventor CAM However this guide will not provide instructional content on how to create 3D models using the Inventor modeling tools Its focus is solely on generating 2D and 3D milling and drilling toolpaths once models are created The Autodesk R Inventor R 2021 Introduction to Solid Modeling guide should be used to learn to create 3D models

CNC-Fräsen für Maker und Modellbauer Christian Rattat, 2020-02-26 Computergesteuert Fräsen für Einsteiger Grundlagen und Praxis Tipps für Anfänger und Fortgeschrittene Schritt für Schritt hochwertige Werkstücke selber fräsen Eine Fräse selbst bauen und erweitern Christian Rattat begleitet Sie mit CNC Fräsen für Maker und Modellbauer von der Anschaffung einer CNC Maschine bis zum ersten selbst gefertigten Objekt Er erklärt Ihnen anhand einer Stepcraft Fräsmaschine wie man diese aus einem Bausatz aufbaut in Betrieb nimmt und damit aus 2D und 3D Modellen Werkstücke

erzeugt Die Bearbeitung verschiedener Materialien wie Holz Acrylglas CFK oder Aluminium wird dabei genau erklärt Mit fundiertem Hintergrundwissen zahlreichen Tipps und Tricks sowie Anregungen zu weiterführenden Entwicklungen unterstützt Sie das Buch optimal beim Einstieg in das CNC Fräsen Aus dem Inhalt CNC Fräsen und Werkstoffe Montage der Stepcraft 2 Fräswerkzeuge 2D Fräsen in der Praxis Erweiterungen für Fräsen Verschiedene Materialien bearbeiten New Approaches in Management of Smart Manufacturing Systems Lucia Knapcikova, Michal Balog, Dragan Peraković, Marko Periša, 2020-06-30 This book provides a comprehensive and effective exchange of information on current developments in the management of manufacturing systems and Industry 4.0 The book aims to establish channels of communication and disseminate knowledge among professionals working in manufacturing and related institutions In the book researchers academicians and practitioners in relevant fields share their knowledge from the sectors of management of manufacturing systems The chapters were selected from several conferences in the field with the topics including management of manufacturing systems with support for Industry 4.0 logistics and intelligent manufacturing systems and applications cooperation management and its effective applications The book also includes case studies in logistics RFID applications and economic impacts in logistics ICT support for industry 4.0 industrial and smart logistics intelligent manufacturing systems and applications *Autodesk Inventor CAM 2022: Milling Fundamentals (Mixed Units)* ASCENT - Center for Technical Knowledge, 2021-09-24 The Autodesk R Inventor R CAM 2022 Milling Fundamentals guide focuses on instructing new users on how to use the Inventor CAM add-on to create milling toolpaths The guide begins with an introduction to the overall Inventor interface and explains how to manipulate your 3D model to change its orientation and view display Through additional hands-on practice intensive curriculum you will learn the key skills and knowledge required to take the 3D model set it up in the CAM environment and assign the 2D and 3D milling toolpaths needed to generate the CNC code required by milling machines Topics Covered Navigate the Inventor software interface to locate and execute commands Use the model orientation commands to pan zoom rotate and look at a model Assign visual styles to your models Locate modify and create tools in the Tool Library Set up machining operations using Inventor CAM Create 2D Milling 3D Milling and Drilling toolpaths using the Inventor CAM interface Use the Simulation option to visualize toolpaths Import a tool library Create a toolpath template Post process an Inventor CAM setup to output the CNC code required to machine a model Prerequisites Access to the 2022 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e.g. 2021 As an introductory guide Autodesk R Inventor R CAM 2022 Milling Fundamentals does not assume prior knowledge of Autodesk Inventor CAM However this guide will not provide instructional content on how to create 3D models using the Inventor modeling tools Its focus is solely on generating 2D and 3D milling and drilling toolpaths once models are created The Autodesk R Inventor R 2022 Introduction to Solid Modeling guide should be used to learn to create 3D models It is

recommended that users have prior experience with the Windows operating system knowledge of 3D model creation modification and an understanding of the CNC milling process *Autodesk Inventor CAM 2023 Milling Fundamentals (Mixed Units)* Ascent - Center for Technical Knowledge,2022-11-22 The Autodesk R Inventor R CAM 2023 Milling Fundamentals guide focuses on instructing new users on how to use the Inventor CAM add on to create milling toolpaths The guide begins with an introduction to the overall Inventor interface and explains how to manipulate your 3D model to change its orientation and view display Through additional hands on practice intensive curriculum you will learn the key skills and knowledge required to take the 3D model set it up in the CAM environment and assign the 2D and 3D milling toolpaths needed to generate the CNC code required by milling machines Topics Covered Navigate the Inventor software interface to locate and execute commands Use the model orientation commands to pan zoom rotate and look at a model Assign visual styles to your models Locate modify and create tools in the Tool Library Set up machining operations using Inventor CAM Create 2D Milling 3D Milling and Drilling toolpaths using the Inventor CAM interface Use the Simulation option to visualize toolpaths Import a tool library Create a toolpath template Post process an Inventor CAM setup to output the CNC code required to machine a model Prerequisites Access to the 2023 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e g 2022 As an introductory guide Autodesk R Inventor R CAM 2023 Milling Fundamentals does not assume prior knowledge of Autodesk Inventor CAM However this guide will not provide instructional content on how to create 3D models using the Inventor modeling tools Its focus is solely on generating 2D and 3D milling and drilling toolpaths once models are created The Autodesk R Inventor R 2023 Introduction to Solid Modeling guide should be used to learn to create 3D models It is recommended that users have prior experience with the Windows operating system knowledge of 3D model creation modification and an understanding of the CNC milling process **Autodesk Inventor 2020** Ascent - Center for Technical Knowledge,2020-02-12 The Autodesk R Inventor R 2020 Introduction to 2D Milling guide focuses on instructing new users on how to use the Inventor CAM add on to create 2D milling toolpaths The guide begins with an introduction to the overall Inventor interface and explains how to manipulate your 3D model to change its orientation and view display Through additional hands on practice intensive curriculum you will learn the key skills and knowledge required to take the 3D model set it up in the CAM environment and assign the toolpaths needed to generate the CNC code required by 2D milling machines Topics Covered Navigate the Inventor software interface to locate and execute commands Use the model orientation commands to pan zoom rotate and look at a model Assign visual styles to your models Locate modify and create tools in the Tool Library Set up machining operations using Inventor CAM Create a Face 2D Adaptive 2D Pocket 2D Contour and Drill toolpath using the Inventor CAM interface Use the Simulation option to visualize toolpaths Import a tool library Create a toolpath template Post process an Inventor CAM setup to output

the CNC code required to machine a model Prerequisites Access to the 2020 2 version of the software to ensure compatibility with this guide Future software updates that are released by Autodesk may include changes that are not reflected in this guide The practices and files included with this guide are not compatible with prior versions e g 2019 As an introductory guide Autodesk R Inventor R 2020 Introduction to 2D Milling does not assume prior knowledge of Autodesk Inventor CAM However this guide will not provide instructional content on how to create 3D models using the Inventor modeling tools Its focus is solely on generating 2D milling toolpaths once models are created The Autodesk R Inventor R 2020 Introduction to Solid Modeling guide should be used to learn to create 3D models It is recommended that users have prior experience with the Windows operating system knowledge of 3D model creation modification and an understanding of the CNC milling process

Autodesk Inventor 2023: Fundamentals for CAM Users (Mixed Units) ASCENT - Center for Technical Knowledge,2022-04-07 **Mastering Autodesk Inventor 2009 and Autodesk Inventor LT 2009** Curtis Waguespack,Sean Dotson,Bill Bogan,Andrew Faix,Seth Hindman,Loren Jahraus,Dennis Jeffrey,Shekar Subrahmanyam,Bob Van der Donck,2008-10-03 The expert content in Mastering Autodesk Inventor 2009 and Autodesk InventorLT 2009 will help you learn advanced related to the industry leading 3D mechanical design software Coverage of subjects like design tactics for large assemblies effective model design for different industries strategies for effective data and asset sharing across teams using 2D and 3D data from other CAD systems and improving designs is thorough and comprehensive With straightforward explanations real world examples practical tutorials tips tricks and techniques this book will be your go to guide to Autodesk Inventor **Mastering Autodesk Inventor 2010** Curtis Waguespack,2010-12-28 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 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 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 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 Inventor 2010 ribbon Interface Inventor 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 documentation including exploded presentation files simple animations rendered animations and stills with Inventor Studio and sheet metal flat patterns Covers Inventor Inventor Professional and Inventor LT Includes a DVD with before 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 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 2025: Fundamentals for CAM Users (Mixed Units) ASCENT - Center for Technical Knowledge,2024-05-06

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Autodesk Inventor 2024 Fundamentals for CAM Users (Mixed Units) ASCENT - Center for Technical Knowledge,2023-04-19

Autodesk Inventor 2025 L. Scott Hansen,2024-06-21

Designed for anyone who wants to learn Autodesk Inventor Absolutely no previous experience with CAD is required Uses a learn by doing approach Starts at a basic level and guides you to an advanced user level Includes extensive video instruction This unique text and video set presents a thorough introduction to Autodesk Inventor for anyone with little or no prior experience with CAD software It can be used in virtually any setting from four year engineering schools to on the job use or self study Unlike other books of its kind it begins at a very basic level and ends at a very advanced level It s perfect for anyone interested in learning Autodesk Inventor quickly and effectively using a learning by doing approach Additionally the extensive videos that are included with this book make it easier than ever to learn Inventor by clearly demonstrating how to use its tools The philosophy behind this book is that learning computer aided design programs is best accomplished by emphasizing the application of the tools Students also seem to learn more quickly and retain information and skills better if they are actually creating something with the software program The driving force behind this book is learning by doing The instructional format of this book centers on making sure that students learn by doing and that students can learn from this book on their own In fact this is one thing that differentiates this book from others the emphasis on being able to use the book for self study The presentation of Autodesk Inventor is structured so that no previous knowledge of any CAD program is required This book uses the philosophy that Inventor is mastered best by concentrating on applying the program to create different types of solid models starting simply and then using the power of the program to progressively create more complex solid models The Drawing Activities at the end of each chapter are more complex iterations of the part developed by each chapter s objectives Since CAD programs are highly visual there are graphical illustrations showing how to use the program This reinforces the learn by doing philosophy since a student can see exactly what the program shows and then step through progressive commands to implement the required operations Rather than using a verbal description of the command a screen capture of each command is replicated Included Videos Each book includes access to extensive video training created by author Scott Hansen The videos follow along with the table of contents of the book Each chapter has one or more videos in which the author demonstrates how to use the tools that are covered in that chapter Most videos follow an exercise from start to finish The exercises created in the video are very similar to the exercise found in the corresponding chapter Throughout the videos Scott Hansen describes how to perform each step the reason behind these steps and some of the other options available with the various tools The author s clear and simple description of each exercise is a perfect companion to

the text and makes learning Autodesk Inventor easier than ever There are thirty four videos with four hours and thirty nine minutes of training in total

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