



# Mill Axis Mastercam Chapter Rotary Machining

**James Valentino, Joseph Goldenberg**



## **Mill Axis Mastercam Chapter Rotary Machining:**

**Learning Mastercam Mill Step by Step** James Valentino, Joseph Goldenberg, 2004 Demonstrates how to install and operate the latest version of the software program using illustrations and step by step instructions Cam Design Handbook Harold A. Rothbart, 2003-12-21 The cam used to translate rotary motion into linear motion is an integral part of many classes of machines such as printing presses textile machinery gear cutting machines and screw machines Emphasizing computer aided design and manufacturing techniques as well as sophisticated numerical control methods this handbook allows engineers and technicians to utilize cutting edge design tools It will decrease time spent on the drawing board and increase productivity and machine accuracy Cam design manufacture and dynamics of cams The latest computer aided design and manufacturing techniques New cam mechanisms including robotic and prosthetic applications *4 Axis CNC Programming with Mastercam X6* Fred Fulkerson, A comprehensive guide to programming four axis CNC milling machines using Mastercam **Secrets of 5-axis Machining** Karlo Apro, 2008 This book explains 5 axis machining in simple terms most people in the field will appreciate and quickly understand The colorful graphics are nothing short of amazing and generously sprinkled throughout the book with incredible detail Dozens of machining applications are illustrated and explained while taking much of the fear out of driving these complex machine tools Anyone associated with 5 axis machine tools has much to gain by reading this book Mark Summers President CNC Software Inc this great book will allow operators NC programmers and anybody interested in multiaxis machining to learn and understand the reality of 5 axis machining The crystal clear wording and perfect overview make this book easy to read and simple to understand for everyone from beginner to expert Yavuz Murtezaoglu Managing Director ModuleWorks GmbH Up to now the best way to get information on 5 axis machining has been by talking to experienced peers in the industry in hopes that they will share what they learned Visiting industrial tradeshow and talking to machine tool and Cad Cam vendors is another option only these people will all give you their point of view and will undoubtedly promote their machine or solution This unbiased no nonsense to the point description of 5 axis machining presents information that was gathered during the author's 30 years of hands on experience in the manufacturing industry bridging countries and continents multiple languages both human and G Code As the only book of its kind Secrets of 5 Axis Machining will demystify the subject and bring it within the reach of anyone who is interested in using this technology to its full potential and is not specific to one particular CAD CAM system It is sure to empower readers to confidently enter this field and by doing so become better equipped to compete in the global market Features full color illustrations through that help to explain the theories and principals Includes a CD containing avi files high quality illustrations and sample parts *Optimal Control of Tool/workpiece Orientation for 5-axis CNC Milling with a Ball-end Cutter* Shiqiao Li, 2013 When a ball end milling tool cuts a given path on a smooth surface it is desirable to maintain a fixed angle  $\psi$  between the tool axis and the local surface normal at each point to ensure a constant speed of the tool cutting edges against the surface This means

that the tool axis must lie on a cone of angle  $\psi$  about the surface normal at each point but its azimuthal position on this cone remains indeterminate To resolve this indeterminacy while minimizing actuation of the rotary axes that orient the workpiece relative to the tool the component of in the surface tangent plane is specified through the parallel transport of a given initial state along the path This amounts to the integration of coupled first order differential equations that involve the Christoffel symbols for the given surface Alternatively the tool axis is shown to be rotation minimizing with respect to the surface normal and its orientation relative to the Darboux frame along the tool path can be determined by integrating the geodesic curvature along that path The method is illustrated by closed form solutions for simple analytic surfaces and numerical integration using an object oriented software implementation for free form surfaces The real time implementation of such rotation minimizing 5 axis tool motions for free form surfaces is well within the scope of modern CNC systems The inverse kinematics problem i e the determination of required inputs to the machine rotary axes to achieve a rotation minimizing tool motion is also addressed In the context of an orientable spindle machine the results of the tool orientation control method are directly applicable to this inverse kinematics problem However since they are expressed in terms of the integral of the geodesic curvature a discrete time step solution is proposed that yields accurate rotary axis increments at high sampling frequencies For an orientable table machine a closed form solution that specifies the rotary axis positions as functions of the surface normal variation along the toolpath is possible In this context however the feasibility of a solution is dependent upon the surface normal along the toolpath satisfying certain orientational constraints These inverse kinematics solutions facilitate accurate and efficient 5 axis machining of free form surfaces without unnecessary actuation of the machine rotary axes

Mastering CNC Programming Peng Huang, 2024-07-29 Delve into the world of CNC programming with this authoritative guide that covers everything from foundational concepts to advanced multi axis machining Designed to empower both beginners and experienced machinists this book offers a comprehensive exploration of CNC milling machine programming with a special focus on harnessing the full potential of MasterCam software Gain a solid understanding of CNC programming principles G code and machine tool operations Master the art of creating efficient and precise toolpaths for complex parts Explore the intricacies of multi axis machining including 4 axis and 5 axis programming techniques with detailed explanations and practical examples This book is your roadmap to mastering CNC programming and achieving exceptional results on your CNC milling machine With clear instructions real world applications and expert insights you ll gain the confidence and skills to tackle any machining challenge Whether you re a student hobbyist or industry professional this book provides the essential knowledge and practical guidance to elevate your CNC programming expertise In depth coverage Explore fundamental CNC programming concepts toolpath generation and machine setup procedures MasterCam expertise Gain proficiency in utilizing MasterCam s powerful features for efficient and accurate multi axis programming Practical applications Learn through real world examples and case studies to apply your knowledge effectively Troubleshooting tips

Overcome common challenges and optimize your programming process Key features include Comprehensive coverage Encompasses a wide range of CNC programming topics and Mastercam functionalities Practical approach Offers hands on examples exercises and real world applications Step by step guidance Breaks down complex concepts into easily understandable steps Expert insights Shares valuable tips and best practices from industry professionals By the end of this book readers will be equipped with the knowledge and skills to confidently program and operate CNC milling machines optimize production efficiency and create high quality parts with precision and accuracy Mastering CNC Programming is your essential companion for achieving excellence in the field of CNC machining

**Machining Simulation Using SOLIDWORKS CAM 2021** Kuang-Hua Chang,2021-07 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 2021 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 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

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**Exploring Mastercam X2 for 2 1/2 Axis Milling Applications** Peter Smid,2008      **Machining Simulation Using SOLIDWORKS CAM 2018** Kuang-Hua Chang,2019-02 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 2018 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

MASTERCAM X : 4 & 5 AXIS MILL TRAINING TUTORIAL Mariana Lendel,2005      **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

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**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



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**Virtual Machining Using**

**CAMWorks 2020** Kuang-Hua Chang,2020-07-16 This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating a physical product CAMWorks is embedded

in SOLIDWORKS as a fully integrated module CAMWorks provides excellent capabilities for machining simulations in a virtual environment. Capabilities in CAMWorks allow you to select CNC machines and tools, extract or create machinable features, define machining operations, and simulate and visualize machining toolpaths. In addition, the machining time estimated in CAMWorks provides an important piece of information for estimating product manufacturing cost without physically manufacturing the product. The book covers the basic concepts and frequently used commands and options you'll need to know to advance from a novice to an intermediate level CAMWorks user. Basic concepts and commands introduced include extracting machinable features such as 2.5 axis features, selecting machine and tools, defining machining parameters such as feed rate, generating and simulating toolpaths, and post processing CL data to output G codes for support of CNC 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 cutter location data verification by reviewing the G codes generated from the toolpaths. This helps you understand how the G codes are generated by using the respective post processors, which is an important step and an ultimate way to confirm that the toolpaths and G codes generated are accurate and useful. This book is intentionally kept simple. It primarily serves the purpose of helping you become familiar with CAMWorks in conducting virtual machining for practical applications. This is not a reference manual of CAMWorks. You may not find everything you need in this book for learning CAMWorks. But this book provides you with basic concepts and steps in using the software as well as discussions on the G codes generated. After going over this book, you will develop a clear understanding in using CAMWorks for virtual machining simulations and should be able to apply the knowledge and skills acquired to carry out machining assignments and bring machining consideration into product design in general. Who this book is for: This book should serve well for self learners. A self learner should have a basic physics and mathematics background. We assume that you are familiar with basic manufacturing processes, especially milling and turning. In addition, we assume you are familiar with G codes. A self learner should be able to complete the ten lessons of this book in about forty hours. This book also serves well for class instructions. 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 four to five weeks of class instructions, depending on the course arrangement and the technical background of the students. What is virtual machining? Virtual machining is the use of simulation-based technology in particular computer-aided manufacturing (CAM) software to aid engineers in defining, simulating, and visualizing machining operations for parts or assembly in a computer or virtual environment. By using virtual machining, the machining process can be defined and verified early in the product design stage. Some, if not all, of the less desirable design features in the context of part manufacturing, such as deep pockets, holes, or fillets of different sizes or cutting on multiple sides, can be detected and addressed while the product design is still being finalized. In addition,

machining related problems such as undesirable surface finish surface gouging and tool or tool holder colliding with stock or fixtures can be identified and eliminated before mounting a stock on a CNC machine at shop floor In addition manufacturing cost which constitutes a significant portion of the product cost can be estimated using the machining time estimated in the virtual machining simulation Virtual machining allows engineers to conduct machining process planning generate machining toolpaths visualize and simulate machining operations and estimate machining time Moreover the toolpaths generated can be converted into NC codes to machine functional parts as well as die or mold for part production In most cases the toolpath is generated in a so called CL data format and then converted to G codes using respective post processors

*Learning Mastercam X2 Mill 2D Step by Step* James Valentino, Joseph Goldenberg, 2008 Demonstrates how to install and operate the latest version of the software program using illustrations and step by step instructions

*SURFCAM Training - 2 Axis Milling* Team Surfcam, 2014-05-21 The SURFCAM Training 2 Axis Milling Guide provides a complete overview of the 2 Axis Machining functions of SURFCAM This allows the reader to quickly understand both the basics concepts of SURFCAM Machining and the specific 2 Axis Milling functions This is book 2 of a multi book series each of which expands on the teachings of the previous book s Features at a glance The basic setup and operation of SURFCAM 2 Axis Milling as well as specific examples of the complete range of SURFCAM 2 Axis Milling toolpaths available This manual will guide you through the 2 Axis machining functions on numerous sample parts all fully diagramed within the manual itself as well as with the support of sample files available at our website <http://www.surfcam.com/trainingguides>

Machining Simulation Using SOLIDWORKS CAM 2025 Kuang-Hua Chang, 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

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**Real-time Surface Interpolars for Multi-axis CNC Machine Tools**

Rong-Shine Lin,1994      **Virtual Machining Using CAMWorks 2021** Kuang-Hua Chang,2021-07 Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Designed for users new to CAMWorks with basic knowledge of manufacturing processes Covers the core concepts and most frequently used commands in CAMWorks Incorporates cutter location data verification by reviewing the generated G codes This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating

a physical product CAMWorks is embedded in SOLIDWORKS as a fully integrated module CAMWorks provides excellent capabilities for machining simulations in a virtual environment Capabilities in CAMWorks allow you to select CNC machines and tools extract or create machinable features define machining operations and simulate and visualize machining toolpaths In addition the machining time estimated in CAMWorks provides an important piece of information for estimating product manufacturing cost without physically manufacturing the product The book covers the basic concepts and frequently used commands and options you ll need to know to advance from a novice to an intermediate level CAMWorks user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting machine and tools defining machining parameters such as feed rate generating and simulating toolpaths and post processing CL data to output G codes for support of CNC 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 cutter location data verification by reviewing the G codes generated from the toolpaths This helps you understand how the G codes are generated by using the respective post processors which is an important step and an ultimate way to confirm that the toolpaths and G codes generated are accurate and useful This book is intentionally kept simple It primarily serves the purpose of helping you become familiar with CAMWorks in conducting virtual machining for practical applications This is not a reference manual of CAMWorks You may not find everything you need in this book for learning CAMWorks But this book provides you with basic concepts and steps in using the software as well as discussions on the G codes generated After going over this book you will develop a clear understanding in using CAMWorks for virtual machining simulations and should be able to apply the knowledge and skills acquired to carry out machining assignments and bring machining consideration into product design in general Who this book is for This book should serve well for self learners A self learner should have a basic physics and mathematics background We assume that you are familiar with basic manufacturing processes especially milling and turning In addition we assume you are familiar with G codes A self learner should be able to complete the ten lessons of this book in about forty hours This book also serves well for class instructions 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 four to five weeks of class instructions depending on the course arrangement and the technical background of the students What is virtual machining Virtual machining is the use of simulation based technology in particular computer aided manufacturing CAM software to aid engineers in defining simulating and visualizing machining operations for parts or assembly in a computer or virtual environment By using virtual machining the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features in the context of part manufacturing such as deep pockets holes or fillets of different sizes or cutting on multiple sides can be detected and addressed while the product design is still being finalized

In addition machining related problems such as undesirable surface finish surface gouging and tool or tool holder colliding with stock or fixtures can be identified and eliminated before mounting a stock on a CNC machine at shop floor In addition manufacturing cost which constitutes a significant portion of the product cost can be estimated using the machining time estimated in the virtual machining simulation Virtual machining allows engineers to conduct machining process planning generate machining toolpaths visualize and simulate machining operations and estimate machining time Moreover the toolpaths generated can be converted into NC codes to machine functional parts as well as die or mold for part production In most cases the toolpath is generated in a so called CL data format and then converted to G codes using respective post processors

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**A Tinkerer's Guide to CNC Basics** Samer Najia, 2024-01-31 Get started with CNC machining using this hands on part color guide that tells you exactly what you need to know without overloading you with useless theory Key Features Get started with the basics of CNC machining and set up your own computerized workshop Explore loads of do it yourself projects to practice what you ve learned Take advantage of the potential of home machining thanks to the power of CNC Book Description Until recently Computer Numerical Control CNC machines belonged to the realm of heavy industry but as technology becomes cheaper and smaller these machines now can be used in home workshops It s not easy to get started though but thanks to this guide you ll be ready to take on a variety of projects in no time A Tinkerer s Guide to CNC Basics contains everything you need to get set up at home with computer controlled machining and fabrication Sparing you the theory this project laden guide helps you learn by doing Once you ve got to grips with the principles of CNC and installed the 3018 Pro CNC machine you ll gradually move from simple projects such as basic engraving to more complex milling and machining techniques You ll even learn how to upgrade your machine to accomplish more sophisticated designs The plethora of projects in this book will keep you busy and give you the practice you need to get started with your computerized workshop By the end of the book your computerized home workshop will be one step closer to realization and your machining skills will be taken to the next level What you will learn Configure calibrate provision and test your CNC machine Add a laser engraver to your machine for finer precision cutting Use the machine to fabricate new components for itself Explore the design impacts of carving on a rotary axis Adapt other machines for CNC Engrave opaque and semi opaque materials Cool your machine with an air assist system Design and develop a customized laser mount Who this book is for This book is for tinkerers hobbyists and craft aficionados comfortable using hand tools aspiring to accelerate or develop more complex and challenging projects Before starting this book you should be comfortable around basic shop tools as well as have a basic understanding of computers While the book will speak to the specifics around the electronics of CNC machines the terms

used such as motherboard USB positive negative terminal and power supply should not be too daunting to understand

Virtual Machining Using CAMWorks 2018 Kuang-Hua Chang, 2018 This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating a physical product CAMWorks is embedded in SOLIDWORKS as a fully integrated module CAMWorks provides excellent capabilities for machining simulations in a virtual environment Capabilities in CAMWorks allow you to select CNC machines and tools extract or create machinable features define machining operations and simulate and visualize machining toolpaths In addition the machining time estimated in CAMWorks provides an important piece of information for estimating product manufacturing cost without physically manufacturing the product The book covers the basic concepts and frequently used commands and options you ll need to know to advance from a novice to an intermediate level CAMWorks user Basic concept and commands introduced include extracting machinable features such as 2 5 axis features selecting machine and tools defining machining parameters such as feedrate generating and simulating toolpaths and post processing CL data to output G codes for support of CNC machining The concept 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 cutter location data verification by reviewing the G codes generated from the toolpaths This helps you understand how the G codes are generated by using the respective post processors which is an important step and an ultimate way to confirm that the toolpaths and G codes generated are accurate and useful This book is intentionally kept simple It primarily serves the purpose of helping you become familiar with CAMWorks in conducting virtual machining for practical applications This is not a reference manual of CAMWorks You may not find everything you need in this book for learning CAMWorks But this book provides you with basic concepts and steps in using the software as well as discussions on the G codes generated After going over this book you will develop a clear understanding in using CAMWorks for virtual machining simulations and should be able to apply the knowledge and skills acquired to carry out machining assignments and bring machining consideration into product design in general Who this book is for This book should serve well for self learners A self learner should have a basic physics and mathematics background We assume that you are familiar with basic manufacturing processes especially milling and turning In addition we assume you are familiar with G codes A self learner should be able to complete the ten lessons of this book in about forty hours This book also serves well for class instructions 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 four to five weeks of class instructions depending on the course arrangement and the technical background of the students What is virtual machining Virtual machining is the use of simulation based technology in particular computer aided manufacturing CAM software to aid

engineers in defining simulating and visualizing machining operations for parts or assembly in a computer or virtual environment By using virtual machining the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features in the context of part manufacturing such as deep pockets holes or fillets of different sizes or cutting on multiple sides can be detected and addressed while the product design is still being finalized In addition machining related problems such as undesirable surface finish surface gouging and tool or tool holder colliding with stock or fixtures can be identified and eliminated before mounting a stock on a CNC machine at shop floor In addition manufacturing cost which constitutes a significant portion of the product cost can be estimated using the machining time estimated in the virtual machining simulation Virtual machining allows engineers to conduct machining process planning generate machining toolpaths visualize and simulate machining operations and estimate machining time Moreover the toolpaths generated can be converted into NC codes to machine functional parts as well as die or mold for part production In most cases the toolpath is generated in a so called CL data format and then converted to G codes using respective post processors



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