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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

teaches the attitudes and competencies necessary for success at work

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