

Mastercam Mill Tutorials

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mastercam is an integrated cad cam software package that creates geometry prepares engineering details finished blueprints graphic toolpaths and nc code for the mechanical design and production process

demonstrates how to install and operate the latest version of the software program using illustrations and step by step instructions

this book presents advanced concepts of computer aided design and computer aided manufacture through modelling and computer numerical control coupled with the simulation of production systems it dwells on the subtle and key features such as the applications and effective use of dynamic blocks in modelling subtractive and additive layer manufacturing flexible manufacturing systems and automation and robotics

the text discusses the principles of computer aided design in a comprehensive manner and applications of the autocad interface programming language covers aspects of product development and design together with accompanying principles of design for manufacture and assembly explains the integrated approach to design and manufacture enhanced by modelling simulation and analysis software with capabilities for electronic transfer and interchange between the software packages presents process planning and part programming with mastercam generating toolpaths and selecting machine tools for subtractive manufacturing and step by step worked examples to enhance the understanding of principles and concepts of engineering design and manufacture explores sequential control and logical sequencing configuration of industrial robots and challenges in programming robots the integrated nature of this book and the examples therein are intended for senior undergraduates graduate students academic researchers and practising engineers in various fields of engineering such as but not limited to aeronautical civil electrical industrial manufacturing mechanical mechatronics and production engineering

this is the second part of a four part series that covers discussion of computer design tools throughout the design process through this book the reader will understand basic design principles and all digital design paradigms understand cad cae cam tools available for various design related tasks understand how to put an integrated system together to conduct all digital design add understand industrial practices in employing add and tools for product development provides a comprehensive and thorough coverage of essential elements for product manufacturing and cost estimating using the computer aided engineering paradigm covers cad cae in virtual manufacturing tool path generation rapid prototyping and cost estimating each chapter includes both analytical methods and computer aided design methods reflecting the use of modern computational tools in engineering design and practice a case study and tutorial example at the end of each chapter provides hands on practice in implementing off the shelf computer design tools provides two projects at the end of the book showing the use of pro engineer and solidworks to implement concepts discussed in the book

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