

Motion Simulation And Mechanism Design With Solidworks Motion 2013 Author Phd Kuang Hua Chang Mar 2014

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e design is the first book to integrate discussion of computer design tools throughout the design process through this book the reader will understand basic design principles and all digital design paradigms cad cae cam tools available for various design related tasks how to put an integrated system together to conduct all digital design add industrial practices in employing add and tools for product development provides a comprehensive and thorough coverage on essential elements for practicing all digital design add covers cad cae methods throughout the design process including solid modelling performance simulation reliability manufacturing cost estimates and rapid prototyping discusses cad cae cam rp cnc tools and data integration for support of the all digital design process reviews off the shelf tools for support of modelling simulations manufacturing and product data management provides tutorial type projects using proengineer and solidworks for readers to exercise design examples and gain hands on experience a series of running examples throughout the book

illustrate the practical use of the add paradigm and tools

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this is one book of a four part series which aims to integrate discussion of modern engineering design principles advanced design tools and industrial design practices throughout the design process through this series the reader will understand basic design principles and modern engineering design paradigms understand cad cae cam tools available for various design related tasks understand how to put an integrated system together to conduct product design using the paradigms and tools understand industrial practices in employing virtual engineering design and tools for product development provides a comprehensive and thorough coverage on essential elements for product performance evaluation using the virtual engineering paradigms covers cad cae in structural analysis using fem motion analysis of mechanical systems fatigue and fracture analysis 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 provide 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

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

mechanism design and analysis using ptc creo mechanism 5 0 is designed to help you become familiar with mechanism a module of the ptc creo parametric software family which supports modeling and analysis or simulation of mechanisms in a virtual computer environment capabilities in mechanism allow users to simulate and visualize mechanism performance using mechanism early in the product development stage could prevent costly redesign due to design defects found in the physical testing phase therefore it contributes to a more cost effective reliable and efficient product development process the book is written following a project based learning approach and covers the major concepts and frequently used commands required to advance readers from a novice to an intermediate level basic concepts discussed include model creation such as body and joint definitions analysis type selection such as static assembly analysis kinematics and dynamics and results visualization the concepts are introduced using simple yet realistic examples verifying the results obtained from computer simulation is extremely important one of the unique features of this textbook is the incorporation of theoretical discussions for kinematic and dynamic analyses in conjunction with simulation results obtained using mechanism the theoretical discussions simply support the verification of simulation results rather than providing an in depth discussion on the subjects of kinematics and dynamics

broad coverage of digital product creation from design to manufacture and process optimization this book addresses the need to provide up to date coverage of current cad cam usage and implementation it covers in one source the entire design to manufacture process reflecting the industry trend to further integrate cad and cam into a single unified process it also updates the computer aided design theory and methods in modern manufacturing systems and examines the most advanced computer aided tools used in digital manufacturing computer aided design and manufacturing consists of three parts the first part on computer aided design cad offers the chapters on geometric modelling knowledge based engineering platforming technology reverse engineering and motion simulation the second part on computer aided manufacturing cam covers group technology and cellular manufacturing computer aided fixture design computer aided manufacturing simulation of manufacturing processes and computer aided design of tools dies and molds tdm the final part includes the chapters on digital manufacturing additive manufacturing and design for sustainability the book is also featured for being uniquely structured to classify and align engineering disciplines and computer aided technologies from the perspective of the design needs in whole product life cycles utilizing a comprehensive solidworks package add ins toolbox and library to showcase the most critical functionalities of modern computer aided tools and presenting real world design projects and case studies so that readers can gain cad and cam problem solving skills upon the cad cam theory computer aided design and manufacturing is an ideal textbook for undergraduate and graduate students in mechanical engineering manufacturing engineering and industrial engineering it can also be used as a technical reference for researchers and engineers in mechanical and manufacturing engineering or computer aided technologies

reverse engineering encompasses a wide spectrum of activities aimed at extracting information on the function structure and behavior of man made or natural artifacts increases in data

sources processing power and improved data mining and processing algorithms have opened new fields of application for reverse engineering in this book we present twelve applications of reverse engineering in the software engineering shape engineering and medical and life sciences application domains the book can serve as a guideline to practitioners in the above fields to the state of the art in reverse engineering techniques tools and use cases as well as an overview of open challenges for reverse engineering researchers

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