

Lihui Wang
Andrew Y.C. Nee
Editors

Collaborative Design and Planning for Digital Manufacturing

Collaborative Design And Planning For Digital Manufacturing 1st Edition

**Sophia Keil,Rainer Lasch,Fabian
Lindner,Jacob Lohmer**



Collaborative Design And Planning For Digital Manufacturing 1st Edition:

Collaborative Design and Planning for Digital Manufacturing Lihui Wang, Andrew Yeh Ching Nee, 2009-01-27

Collaborative design has attracted much attention in the research community in recent years. With increasingly decentralized manufacturing systems and processes, more collaborative approaches and systems are needed to support distributed manufacturing operations. *Collaborative Design and Planning for Digital Manufacturing* presents a focused collection of quality chapters on the state of the art research efforts in the area of collaborative design and planning, as well as their practical applications towards digital manufacturing. *Collaborative Design and Planning for Digital Manufacturing* provides both a broad-based review of the key areas of research in digital manufacturing and an in-depth treatment of particular methodologies and systems from collaborative design to distributed planning, monitoring, and control. Recent development and innovations in this area provide a pool of focused research efforts relevant to a wide readership, from academic researchers to practicing engineers.

Collaborative Design and Planning for Digital Manufacturing Lihui Wang, Andrew Yeh Ching Nee, 2009-08-29 Collaborative design has attracted much attention in the research community in recent years. With increasingly decentralized manufacturing systems and processes, more collaborative approaches and systems are needed to support distributed manufacturing operations. *Collaborative Design and Planning for Digital Manufacturing* presents a focused collection of quality chapters on the state of the art research efforts in the area of collaborative design and planning, as well as their practical applications towards digital manufacturing. *Collaborative Design and Planning for Digital Manufacturing* provides both a broad-based review of the key areas of research in digital manufacturing and an in-depth treatment of particular methodologies and systems from collaborative design to distributed planning, monitoring, and control. Recent development and innovations in this area provide a pool of focused research efforts relevant to a wide readership, from academic researchers to practicing engineers.

Practical Guide to Digital Manufacturing Zhuming Bi, 2021-05-24 This book covers the subject of digital manufacturing. It provides a practical guide for readers on using computer-aided design (CAD), computer-aided engineering (CAE), and computer-aided manufacturing (CAM) and other computer-assistive tools for the design of products, machines, processes, and system integrations through the case studies of engineering projects. The book introduces a thorough theoretical foundation and discussion of the historical development and enabling technologies of digital manufacturing. It also covers a broad range of computer-aided tools for a variety of applications, including geometric modelling, assembly modelling, motion simulation, finite element analysis, manufacturing process simulation, machining programming, product data management, and product lifecycle management. *Practical Guide to Digital Manufacturing* uses many real-world case studies to illustrate the discussed applications, making it easily readable for undergraduate and graduate students, as well as engineers with the needs of computer-aided design and manufacturing knowledge and skills.

Computer Aided Design and Manufacturing Zhuming Bi, Xiaoqin Wang, 2020-02-04

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

Innovative Developments in Virtual and Physical Prototyping Paulo Jorge Bartolo,2011-09-16 Innovative Developments in Virtual and Physical Prototyping presents essential research in the area of Virtual and Rapid Prototyping The volume contains reviewed papers presented at the 5th International Conference on Advanced Research in Virtual and Rapid Prototyping hosted by the Centre for Rapid and Sustainable Product Development of the Polyt

Digital Transformation in Semiconductor Manufacturing Sophia Keil,Rainer Lasch,Fabian Lindner,Jacob Lohmer,2020-05-26 This open access book reports on cutting edge electrical engineering and microelectronics solutions to foster and support digitalization in the semiconductor industry Based on the outcomes of the European project iDev40 which were presented at the two first conference editions of the European Advances in Digital Transformation Conference EADCT 2018 and EADTC 2019 the book covers different multidisciplinary aspects related to digital transformation including technological and industrial developments as well as human factors research and applications Topics include modeling and simulation methods in semiconductor operations supply chain management issues employee training methods and workplaces optimization as well as smart software and hardware solutions for semiconductor manufacturing By highlighting industrially relevant developments and discussing open issues related to digital transformation the book offers a timely practice oriented guide to graduate students researchers and

professionals interested in the digital transformation of manufacturing domains and work environments *Collaborative Product Design and Manufacturing Methodologies and Applications* Wei Dong Li, Soh Khim Ong, Andrew Yeh Ching Nee, Christopher Alan McMahon, 2007-06-02 Collaborative Product Design and Manufacturing Methodologies and Applications introduces a wide spectrum of collaborative engineering issues in design and manufacturing It offers state of the art chapters written by international experts from academia and industry and reflects the most up to date R D work and applications especially those from the last three to five years The book will serve as an essential reference for academics upper level undergraduate and graduate students and practicing professionals **The Cumulative Book Index** ,1995 A world list of books in the English language **Product Lifecycle Management. Integrating Digital Technologies for Sustainability and Innovation** Pradorn Sureephong, Christophe Danjou, Abdelaziz Bouras, 2025-07-09 This two volume set constitutes the refereed proceedings of the 21st IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2024 held in Bangkok Thailand during July 7-10 2024 The 64 full papers presented in this book were carefully reviewed and selected from 105 submissions PLM 2024 aims to integrate business approaches to the collaborative creation management and dissemination of product and process data throughout the extended enterprises that create manufacture and operate engineered products and systems **Journal of Object-oriented Programming** ,2000 *Small Business Sourcebook* ,1996 A guide to the information services and sources provided to 100 types of small business by associations consultants educational programs franchisers government agencies reference works statisticians suppliers trade shows and venture capital firms **Subject Guide to Books in Print** ,2001 *American Book Publishing Record* ,1999 **Who's Who in the West** Marquis Who's Who, 2006-06 *Agrindex* ,1995 *Consultants & Consulting Organizations Directory: Descriptive listings and indexes* ,2009 *Collaborative Design and Manufacturing* Weiming Shen, Jean-Paul A. Barthès, 2008 **Collaborative Planning with Digital Design Synthesis** Hrishikesh Ballal, 2015 **Books in Print Supplement** ,2002 **Who's who in the East** ,1985

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