

Computer Integrated Manufacturing (Subject Code: KME 051)

Unit 1

Introduction to Computer Integrated Manufacturing (CIM): Introduction to CAD, CAM, CIM, Automated Manufacturing system; Need of automation, Basic elements of automation, Levels of automation, Automation Strategies, Advantages & disadvantages of automation, Historical development and future trends. Computer Integrated Manufacturing, Computers in manufacturing industries.

Unit 2

Principles of Computer Graphics:

Point plotting, drawing of lines, Bresenham's circle algorithm.

Transformation in Graphics:

2D transformations – rotation, scaling, translation, mirror, reflection, shear – homogeneous transformations – concatenation, 3D transformations.

Curves: Introduction to Hermite cubic splines, Bezier curves, B-spline curves, NURBS

Surface Modeling: Polygon surfaces, Quadric surfaces, Superquadric surfaces and blobby objects

Solid modeling: Boolean set operations, Primitive instancing, Sweep representation, Boundadry representation, Constructive solid geometry.

Unit 3

Computer Aided Manufacturing:

NC in CAM – Principal types of CNC machine tools and their construction features – tooling for CNC – ISO designation for tooling – CNC operating system Programming for CNC machining – coordinate systems – manual part programming – computer assisted part programming.

Unit 4

Group Technology: Group technology, Cellular Manufacturing, CAPP – Variant and Generative systems- Concurrent Engineering and Design for Manufacturing.

Flexible Manufacturing System: characteristics – economics and technological justification – planning, installation, operation and evaluation issues – role of group technology and JIT in FMS – typical case studies future prospects, Industry 4.0.

Robotics: Classification and specification – drive and controls – sensors - end effectors - grippers- tool handling and work handling – machine vision – robot programming concepts – case studies in assembly. Introduction to Programmable logical controller

Unit 5

Data and information in CIM: Management information system in CIM environment, MRP – MRP II – ERP - Capacity planning.

Material handling in CIM environment: Types – AGVS – AS/RS – Swarf handling and disposal of wastes – single and mixed mode assembly lines – quantitative analysis of assembly systems.

Rapid prototyping: Need for rapid prototyping, Basic principles and advantages of RP, General features and classifications of different RP techniques with examples.

Books and References:

1. Mikell P.Groover - Automation , Production Systems and Computer IntegratedManufacturing, Second edition, Prentice Hall of India.

Computer Integrated Manufacturing Techniques And Applications

Serope Kalpakjian



Computer Integrated Manufacturing Techniques And Applications:

Computer Integrated Manufacturing Michael F. Hordeski,1988 Computer-Aided Design, Engineering, and Manufacturing Cornelius T. Leondes,2019-08-21 In the competitive business arena companies must continually strive to create new and better products faster more efficiently and more cost effectively than their competitors to gain and keep the competitive advantage Computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM are now the industry standars **Computer Integrated Manufacturing** United States. Army Materiel Command,1988

CIM. Computer Integrated Manufacturing August-Wilhelm Scheer,2012-12-06 Computer Integrated Manufacturing CIM is the computerized handling of integrated operational processes between production planning and control design process planning production and quality assurance The consistent application of information technology along with modern manufacturing techniques and new organizational procedures opens up great potential for rationalization by speeding up processes thereby reducing stocks and improving product structure and delivery times Following a comprehensive justification of the CIM integration principle this book discusses the current state of applications and new demands arising from the integration principle as applied to the individual CIM components The interfaces between business and technical information processing are considered in detail The main emphasis however is on strategies for realization and implementation based on concrete experience The Y CIM information management model developed and tested at the author's institute is presented as a procedural method for implementing CIM and demonstrated using up to date examples In addition to the procedure for developing a CIM strategy concrete sub projects are developed which are directed at specific sector or enterprise structures The survey of further CIM developments including design stage cost estimation use of expert systems and inter company process chains have proved to be effective CIM components since the first edition of this book and are now treated in the main text Six German and five American industrial implementations are presented to illustrate the diverse areas of emphasis in the implementation sequence and to indicate how CIM can be realized with currently available data processing tools Computer Integrated Manufacturing (Iccim '91): Manufacturing Enterprises Of The 21st Century - Proceedings Of The International Conference B S Lim,1991-10-02 In the 21st century computer integrated manufacturing CIM systems will not only be the economic development tools but will also be the essential means of achieving a higher level of flexibility cohesiveness and performance CIM systems are beginning to settle into our society and industries with greater emphasis on the integration of economic cultural and social aspects together with design planning factory automation and artificial intelligent systems This volume of proceedings brings together 10 keynote and invited speaker addresses and over 180 papers by practitioners from 28 countries It documents current research and in depth studies on the fundamental aspects of advanced CIM systems and their practical applications The papers fall into 3 main sections CIM Related Issues Industrial AI Applications Aspects and Concurrent Engineering Advanced Design Simulation and Flexible Manufacturing

Systems **CIM Computer Integrated Manufacturing** August-Wilhelm Scheer,2012-12-06 Modern information technology has opened up new possibilities of flexibilization and cost reduction in production The author defines CIM Computer Integrated Manufacturing as a concept for the structuring of industrial enterprises Manufacturing technologies demand a CIM concept which can be realized through the capabilities of information processing available today The idea of integrating different areas of CIM such as production planning and control PPC computer aided design CAD and computer aided manufacturing CAM is explained through operating chains and put into a CIM architecture based on a hierarchy of EDP systems The stance taken in this book of defining CIM as a total concept for industrial enterprises is increasingly gaining ground The book does not aim to put the functional details of the individual CIM components PPC CAD CAP and CAM in the foreground but rather to emphasize the integration principles for the functional demands of the individual components This book appeared in the Federal Republic of Germany in 1987 and within one year it had run to three editions The author contributes to this book not only his scientific knowledge but also his experience as a consultant for implementing CIM concepts Principles of Computer-integrated Manufacturing S. Kant Vajpayee,1995 For courses in Computer Integrated Manufacturing CAD CAM Innovations in Technology and Advances in Manufacturing For Community College students or 4 year college students A unique new text whose emphasis on the underlying principles of Computer Integrated Manufacturing CIM creates a treatment that is effectively balanced between the needs of the technologist and management considerations of CIM After an introduction to the basics of CIM coverage addresses its three enabling technologies computers communications and databases Metals and Alloys followed by discussion of CIM technologies for discrete parts production A final chapter looks at emerging technologies and management innovations and their impact on the field COMPUTER INTEGRATED MANUFACTURING ALAVUDEEN, A.,VENKATESHWARAN, N.,2008-08-18 This up to date and accessible text deals with the basics of Computer Integrated Manufacturing CIM and the many advances made in the field It begins with a discussion on automation systems and gives the historical background of many of the automation technologies Then it moves on to describe the various techniques of automation such as group technology and flexible manufacturing systems The text describes several production techniques for example just in time JIT lean manufacturing and agile manufacturing besides explaining in detail database systems machine functions and design considerations of Numerical Control NC and Computer Numerical Control CNC machines and how the CIM system can be modelled The book concludes with a discussion on the industrial application of artificial intelligence with the help of case studies in addition to giving network application and signalling approaches Intended primarily as a text for the undergraduate and graduate students of mechanical production and industrial engineering and management the text should also prove useful for the professionals in the field Computer Integrated Manufacturing Alan Weatherall,2013-09-03 Computer Integrated Manufacturing From Fundamentals to Implementation is based on a course in computer integrated manufacturing CIM which is part of the Production Engineering

Triplos for postgraduate level students at Cambridge University The book is intended to provide a thorough coverage of a difficult subject and to communicate principles as well as something of current practice This should give a firm basis of knowledge in CIM and develop an understanding that will be valid for many years in changing business and manufacturing environments The book covers CIM and manufacturing systems at a technical level from description of the conventional islands of computerization to the components of CIM architecture The business objectives of CIM are described from analysis of the business environment to cost justification and implementation of CIM systems CIM is seen as a business tool and not as an end in itself Each individual and company needs to adapt the tools described in this book to best effect Study of this book should enable postgraduate students and professional engineers to deal confidently with the subject and use CIM techniques profitably

Computer Integrated Manufacturing Steven A. Melnyk, Ram Narasimhan, 1992 Many manufacturing managers feel unsure about the nature of CIM Steven Melnyk and Ram Narasimhan present it as a strategic rather than a technical function and offer a management based approach for understanding and implementing it in your operations Unlike other CIM books *Computer Integrated Manufacturing* is written from the manager s point of view rather than that of a technical expert In easy to understand terms it shows you how to develop a strong link between strategy and CIM structure turn CIM into a competitive advantage over business rivals deal with glitches that arise in the CIM process

Human Aspects in Computer Integrated Manufacturing G.J. Olling, 2013-10-22 The papers in this volume reflect the current research and development of advanced manufacturing software They may be categorized as follows New Concepts towards CIM Product Realization through Product Process Modelling Intelligent Management and Control of Manufacturing Activities and Development of CIM Systems

Computer-integrated Manufacturing James A. Rehg, 1994 Outlines the interaction of Computer Integrated Manufacturing CIM into current manufacturing systems The text aims to show how the technology is used to solve industrial problems and applications of CIM are discussed

Computer Integrated Manufacturing C. O'Brien, P. MacConaill, W. Van Puymbroeck, 1992-05-21 CIM EUROPE 1992 is a record of the conference on Computer Integrated Manufacturing held in Birmingham in May 1992 in which researchers practitioners and decision makers in the CIM field were brought together Altogether it comprises 44 papers by contributors mainly from Europe but also from the USA China and Japan The papers of this proceedings cover various European and international projects on the application and development of CIM worldwide and in special industries The focus is placed on results and benefits Readers will find this book helpful for the planning of their own CIM initiatives as it provides a unique opportunity to learn of the views of industry research centres and universities

CIM Systems Ferdinand Haverman Mitchell, 1991 Combining manufacturing systems with management techniques this integrated approach to designing and developing CIM systems provides a multi disciplinary system oriented background understanding of advanced manufacturing issues and strategies It also offers design methods that can be used to create competitive manufacturing systems The text s methods include assessing problems

determining solution approaches and developing and integrating systems based on relevant engineering science and management disciplines Software is included for a simple system environment simulation SES model that illustrates the application of key concepts Real world application design models are applied to specific system examples The author discusses design principles within a comprehensive framework providing a context for understanding manufacturing operations and relationships Throughout the text the integrated technical and management considerations aim to encourage effective CIM team management

Computer Integrated Manufacturing ALAN WEATHERALL,2013-10-22 This book will give a competitive edge to students of manufacturing managers in industry and anyone involved in specifying implementing and using CIM systems

Publications of the National Institute of Standards and Technology ...
Catalog National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994

Control and dynamic systems : advances in theory and applications.
61. *Computer-aided manufacturing / Computer-integrated manufacturing (CAM/CIM) : part 2 of 2* Cornelius T. Leondes,1994

Information Management in Computer Integrated Manufacturing Heimo H. Adelsberger,Jiri Lazansky,Vladimir Marik,1995-08-21 This book presents a modern and attractive approach to computer integrated manufacturing CIM by stressing the crucial role of information management aspects The 31 contributions contained constitute the final report on the EC Project TEMPUS No 2609 aimed at establishing a new curriculum and regular education in the new field of information management in CIM at European universities Much attention was paid to the style of writing and coverage of the important issues Thus the book is particularly suited as a text for students and young scientists approaching CIM from different directions at the same time it is a comprehensive guide for industrial engineers in machine engineering computer science control engineering artificial intelligence production management etc

Manufacturing Engineering and Technology Serope Kalpakjian,1992 A comprehensive text for students in manufacturing mechanical industrial and metallurgical and materials engineering programs providing an understanding of the interrelationships among the many technical and economic factors involved in manufacturing This revised and updated edition second was 1992 expands its coverage of technological advances including abrasive machining computer simulation of manufacturing processes and systems instrumentation laser beams in manufacturing nanophase ceramics rapid prototyping semisolid metalworking surface texturing and tool condition monitoring Annotation copyright by Book News Inc Portland OR

Integrated Process and Fixture Planning Awais Ahmad Khan,Emad Abouel Nasr,Abdulrahman Al-Ahmari,Syed Hammad Mian,2018-05-20 Fixtures are used in manufacturing to secure working devices They help insure conformity accuracy efficiency and interchangeability their reliability is crucial This book introduces and implements a new methodology for more flexible fixture design and manufacturing processes and develops the supporting technologies for automation and fixture planning using object oriented platforms It also presents an integrated solution with Computer Aided Design CAD

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Table of Contents Computer Integrated Manufacturing Techniques And Applications

1. Understanding the eBook Computer Integrated Manufacturing Techniques And Applications
 - The Rise of Digital Reading Computer Integrated Manufacturing Techniques And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Integrated Manufacturing Techniques And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computer Integrated Manufacturing Techniques And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Integrated Manufacturing Techniques And Applications
 - Personalized Recommendations

Computer Integrated Manufacturing Techniques And Applications

- Computer Integrated Manufacturing Techniques And Applications User Reviews and Ratings
- Computer Integrated Manufacturing Techniques And Applications and Bestseller Lists
- 5. Accessing Computer Integrated Manufacturing Techniques And Applications Free and Paid eBooks
 - Computer Integrated Manufacturing Techniques And Applications Public Domain eBooks
 - Computer Integrated Manufacturing Techniques And Applications eBook Subscription Services
 - Computer Integrated Manufacturing Techniques And Applications Budget-Friendly Options
- 6. Navigating Computer Integrated Manufacturing Techniques And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Integrated Manufacturing Techniques And Applications Compatibility with Devices
 - Computer Integrated Manufacturing Techniques And Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Integrated Manufacturing Techniques And Applications
 - Highlighting and Note-Taking Computer Integrated Manufacturing Techniques And Applications
 - Interactive Elements Computer Integrated Manufacturing Techniques And Applications
- 8. Staying Engaged with Computer Integrated Manufacturing Techniques And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Integrated Manufacturing Techniques And Applications
- 9. Balancing eBooks and Physical Books Computer Integrated Manufacturing Techniques And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Integrated Manufacturing Techniques And Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Computer Integrated Manufacturing Techniques And Applications
 - Setting Reading Goals Computer Integrated Manufacturing Techniques And Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computer Integrated Manufacturing Techniques And Applications
 - Fact-Checking eBook Content of Computer Integrated Manufacturing Techniques And Applications

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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