

## **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

**Minjie Lin**



## **Computer Integrated Manufacturing Techniques And Applications:**

## Adopting the Melody of Appearance: An Emotional Symphony within **Computer Integrated Manufacturing Techniques And Applications**

In a global consumed by monitors and the ceaseless chatter of instant transmission, the melodic beauty and emotional symphony developed by the published word usually diminish in to the background, eclipsed by the constant sound and interruptions that permeate our lives. But, set within the pages of **Computer Integrated Manufacturing Techniques And Applications** a marvelous literary value brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts visitors on a mental journey, well unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this touching examination, we can discover the book is main harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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