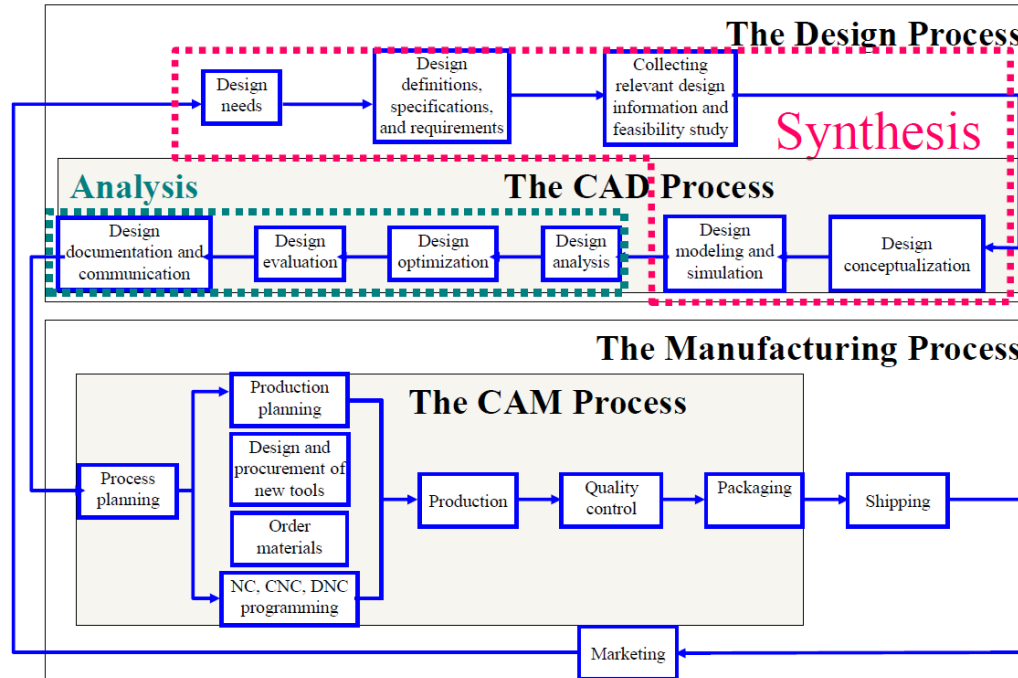
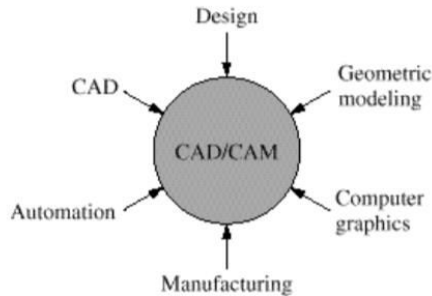
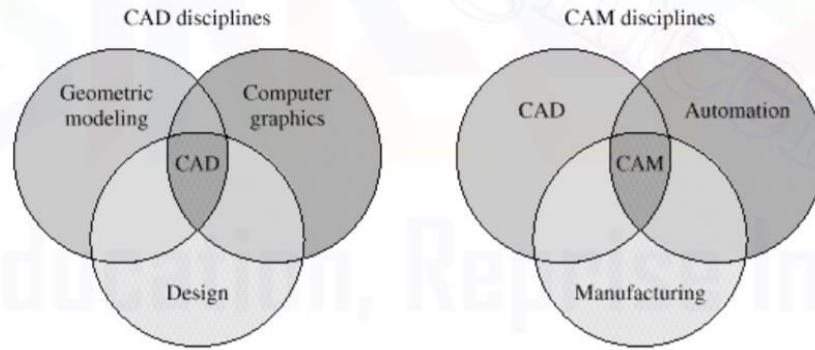


Typical Product Cycle



Scope of CAD/CAM



Questions



1. Explain the factors, which inhibit the use of a very high resolution and a large number of colours for display in the case of raster scanning display devices?
2. i Give the general configuration of a CAD computer system.
ii In what ways CAD can help manufacturing activity? Discuss.
- 3 CAD helps in integrating CAM- Justify this statement.
4. i. How do you specify a plotter for graphics application?
ii. Explain the four types of production.
5. Briefly describe the types of storage devices used in computers.
6. i. In design, what do you understand by synthesis and engineering analysis?
ii. Explain how CAD helps to synthesize a product design and do engineering analysis for getting optimal design

Lecture No 2 Topic: Computer Aided Design



- Use of computer systems to assist in the creation, modification, analysis, and optimization of a design
- Typical tools:
 - – Tolerance analysis
 - – Mass property calculations
 - – Finite-element modeling and visualization
- Defines the geometry of the design

Computer-Aided Manufacturing (CAM)

- Use of computer systems to plan, manage, and control manufacturing operations
- Direct or indirect computer interface with the plant's production resources
- Numerical control of machine tools
- Programming of robots