# Cheatography

# CADM Cheat Sheet by harish av via cheatography.com/152139/cs/32837/

### UNIT !

product life cycle begins with the need of customer's and market's demands.

the two main processes include design and manufacturing. sub process of design includes sythesis and analysis and sub process of manufacturing includes process planning and production.

#### product life cycle image

Typical Product Life Cycle	
Construction for the Design Research	
Analysis The CAD Process	
Bright Design De	in
ilining offeren	4 4
The Manufacturing Process	ιı
The CAM Process put the conce	ep
	e>
of engineerin	١g
science appl	ic

phases in pro	the performation of the product	
<b>design</b> <b>phase</b> philosophy,	manufacturing phase the backbone of	and it is achieved by modelling an simulation. the outcome analysis and design is the design docur ntation in the form of engin ering drawing
functi- onality and uniqueness of the product falls under synthesis	manufacturing is process planning as it attempts to determine the most efficient sequence to produce the product	

phases in	product of	cycle (cont)
		<b>,</b> ,

the form of

during synthesis the panner the design takes works with blueprints sketches or 3d from the representation to design team show the relation and may between various communproduct parts. icate to clarify changes in the design to fit manufacturing methods ns outcome of process to pt planning is production ext plan, tools g procurcation to evaluate ement, the performance material of the product order and machine programodelling and mming the outcome of once the PP analysis and is complete design is the the design documeproduction ntation in the starts. the form of engineparts are ering drawings inspected for quality stds requirements, assembled, packed, labeled and

## design process

it is the formulation of plan to help an engineer to build a product. the fundamental elements of design includes, establishment

of objectives and criteria, synthesis, analysis, construction, testing and evaluation.

#### **ENGINEERING DESIGN** PROCESS

TROCLOS		
CONCEPTUAL DESINGN	EMBODIMENT DESIGN	SHIGLEY'S DESIGN PROCESS
identification of customer needs	production architecture	recognition of need
problem definition	config design	definition of problem
gathering info	parametric design	analysis and optimi- zation
conceptualiz- ation		evaluation
concept selection		presen- tation
engineering desig		
process including		
conceptualization		
assessment, esta		
requirements, pre		
production plann		
design and enter		
uction phase.		

market feedback is usually done under the design process, with this feedback the product loop cycle is closed.

shipped

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