

Additive Manufacturing [3D printing] [Rapid prototyping]

Definition:

It is a process of converting a Computer Aided Design (CAD) based three dimensional model into real product by layer wise processing of the 3-D model.

The process makes use of interfaced software and hardware components with actuators and sensors to print the 3-D product.

Advantages over traditional manufacturing: (subtractive manufacturing)

- Reduces material wastage
- Reduces the number of operations and tooling
- Reduces the requirement of skilled operators (As it avoids use of multiple machine operations).
- Reduces production time
- Reduce cost of production as wastage is reduced
- Provides more freedom for designers.
- ~~Complete~~ parts can be produced

Steps in Additive manufacturing: 8 steps. Detailing not needed

Printable 3D models can be created with a Computer Aided Design (CAD) package, through a 3D scanner, or by plain digital camera and photogrammetry software. These models can be saved in STEREO LITHOGRAPHY (STL) file format. This will be processed by software 'slicer' which converts the model into a series of thin layers and produces G-code program to a specific type of 3D printer.

Mechanical Building Services Engineering Lecture Notes

Liyong Dong



Mechanical Building Services Engineering Lecture Notes:

Embracing the Song of Phrase: An Emotional Symphony within **Mechanical Building Services Engineering Lecture Notes**

In some sort of eaten by displays and the ceaseless chatter of instantaneous conversation, the melodic beauty and psychological symphony developed by the written word often disappear into the back ground, eclipsed by the relentless noise and disturbances that permeate our lives. However, nestled within the pages of **Mechanical Building Services Engineering Lecture Notes** an enchanting literary value filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this captivating masterpiece conducts readers on an emotional trip, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of this emotional examination, we can examine the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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