

## 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.
- Complex 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

**Lingsheng Yao**



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## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Mechanical Building Services Engineering Lecture Notes**

In a world inundated with screens and the cacophony of instantaneous connection, the profound power and psychological resonance of verbal artistry usually diminish in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the musical pages of **Mechanical Building Services Engineering Lecture Notes**, a captivating function of fictional splendor that pulses with organic thoughts, lies an wonderful trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this mesmerizing opus books readers on an emotional odyssey, lightly exposing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is main themes, dissect its captivating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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