

A DENIYI TOHREB

17/ENG02/006

COMPUTER ENGINEERING

A Discuss the benefits of filters in Engineering System

Answer

Filters are Electronic Circuits that remove any unwanted components or features from a signal. In simple words, you can understand it as the circuit rejects certain band of frequencies and allows others to pass through.

It is beneficial to Engineering because they are widely used in instrumentation, Electronics and Communication Systems especially in signal & image processing systems.

- Filter circuits are used to eliminate background noise
  - They are also used in signal processing circuits & data conversion
  - Filters are extensively used in medical electronic systems
- ⇒ They are economical or cost-effective
- ⇒ They require power supply