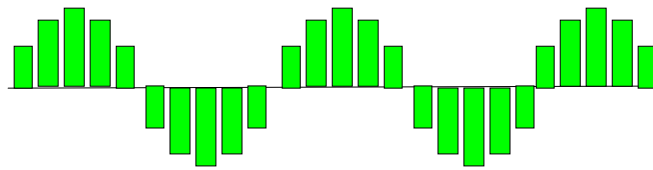
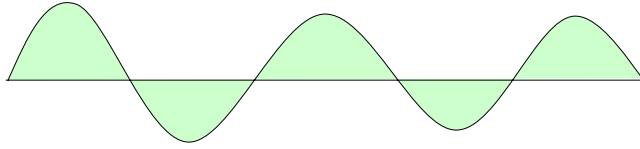


# Signals



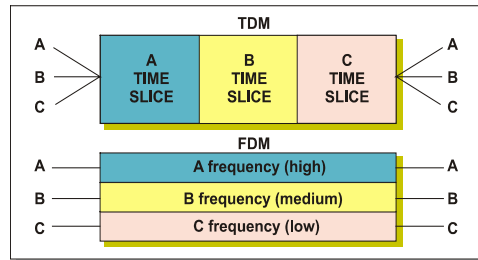
## **Bit Synchronisation**

- Asynchronous
- Synchronous:
  - Guaranteed state change
  - Separate clock signal
  - Oversampling

## **Bandwidth Use**

- In baseband LANs, the entire bandwidth of the LAN cable is used to transmit a single digital signal
- In broadband networks, the bandwidth of the cable is divided into many channels, which can transmit many simultaneous signals

# Multiplexing Techniques



# X.21

