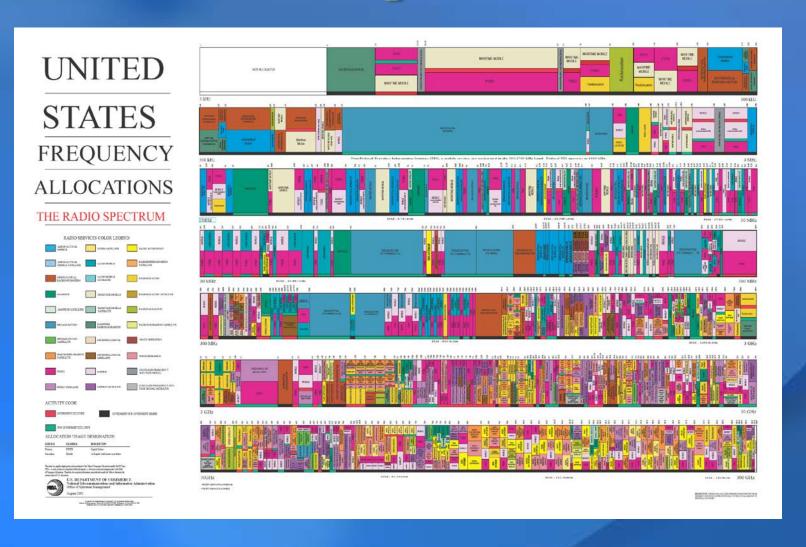
# Sharing A Channel

## Sharing a Channel

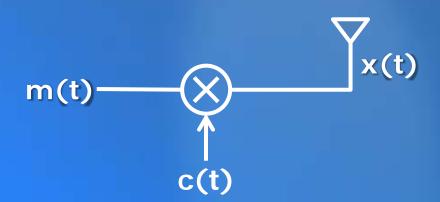
- Sharing a channel is known as multiplexing.
- Multiplexing methods
  - Space-division
  - Time-division
  - Code-division
  - Frequency-division

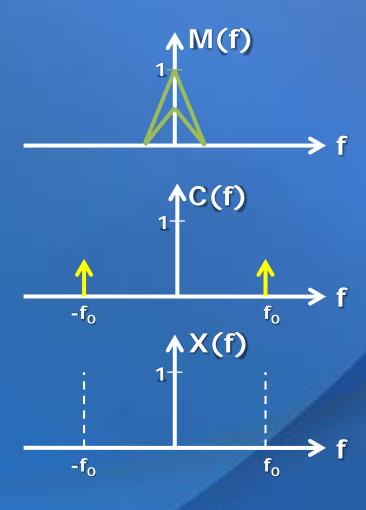


## Radio Spectrum

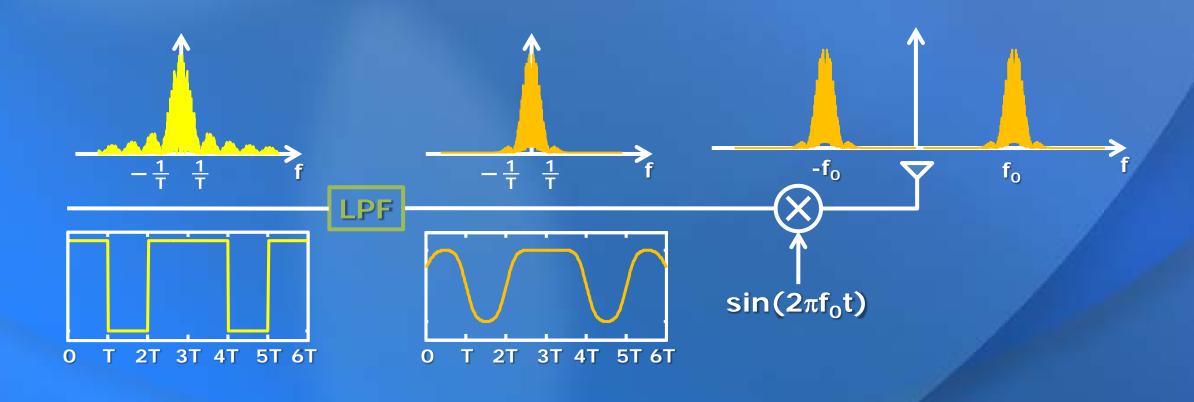


### Modulation

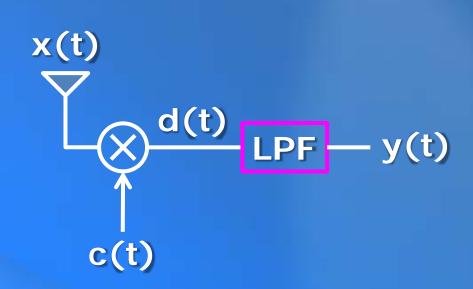


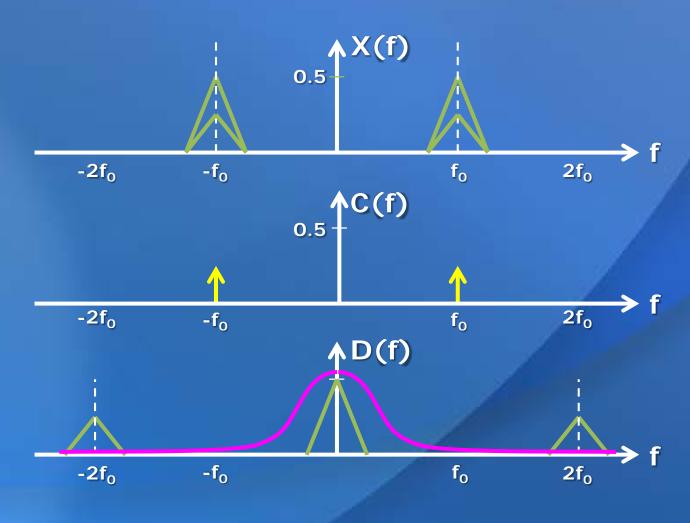


## Binary Phase Shift Keying

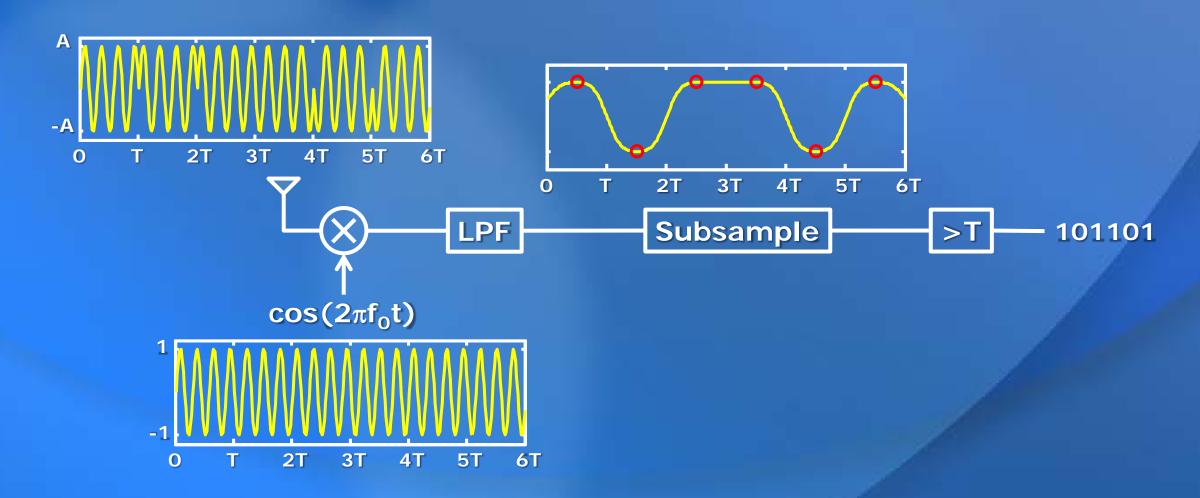


#### Demodulation

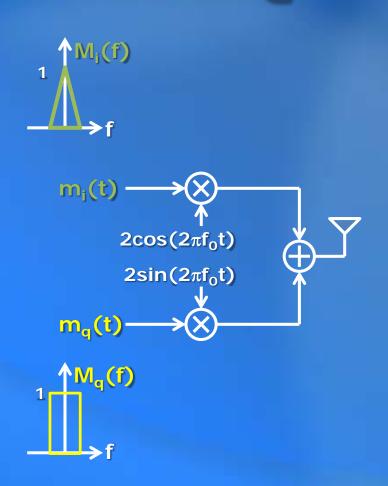


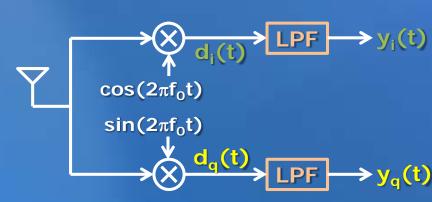


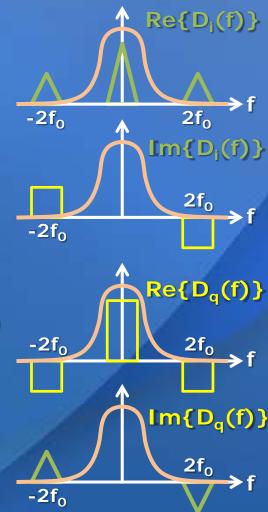
#### BPSK Receiver



#### I-Q Communication







#### Quadrature Phase Shift Keying

