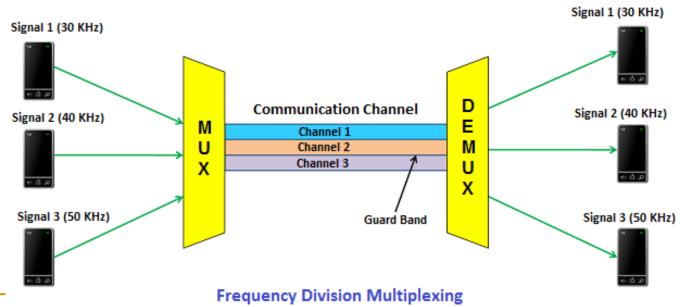
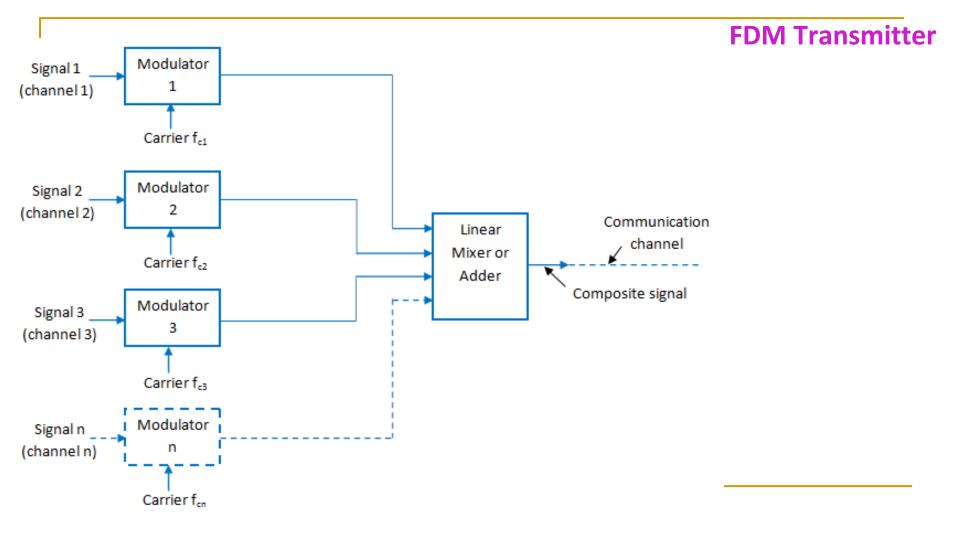
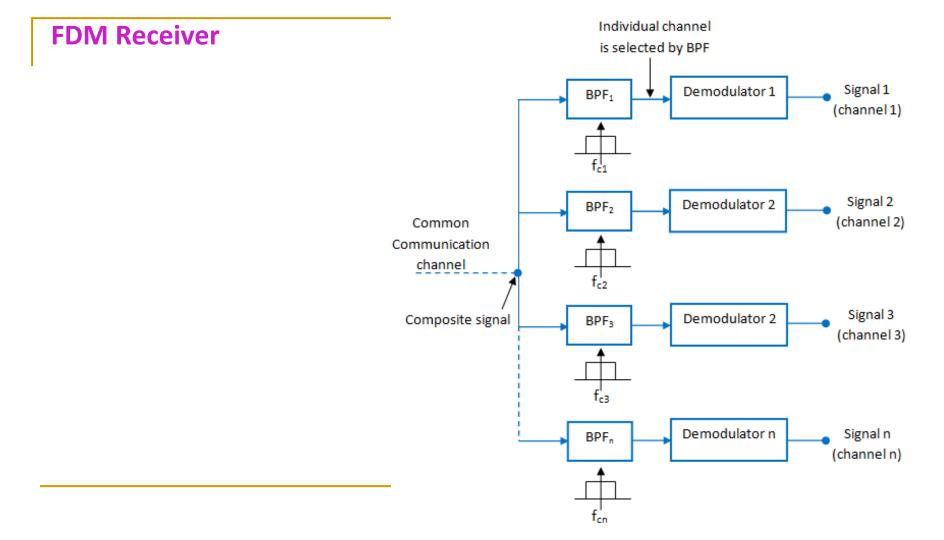
## **FDM**

In this, a number of signals are transmitted at the same time, and each source transfers its signals in the allotted frequency range. There is a suitable frequency gap (Guard Band) between the 2 adjacent signals to avoid over-lapping.



Physics and Radio-Electronics





## **FDM**

## **PROS:**

- It uses analogue signals
- Multiple signals can be transmitted simultaneously
- Demodulation is easier
- It does not require synchronization between sender and receiver

## **CONS:**

- Low speed channels supported
- Problem of crosstalk
- Large number of modulators required
- High bandwidth channel requirement to operate

**Applications of FDM (Frequency division multiplexing)** 

- FM and AM radio broadcasting
- Television broadcasting