



INTRODUCTION TO OFDM



- ▶ Orthogonal Frequency-Division Multiplexing (OFDM) is a method of data transmission.
- ▶ Single information stream is split among several closely spaced narrowband subchannel frequencies instead of a single Wideband channel frequency.
- ▶ Its efficiency and its robustness to multipath propagations and it is a good candidate for 5G communication systems as well.



MIMO-OFDM SYSTEMS



- ▶ MIMO-OFDM is the foundation for most advanced wireless local area network (wireless LAN) and mobile broadband network standards.
- ▶ it achieves the greatest spectral efficiency and, therefore, delivers the highest capacity and data throughput.