Quadrature Amplitude Modulation / (Quadrature Multiplexing)

Amplitude modulation of a signas with bandwidth B=5kHz, with a carrier at frequency, Fc, produces a bandlimited signal from frequency Fc-B to Fc+B, i.e. a bandwidth of 2B. Hence bandwidth of 2B is required to transmit a signal of bandwidth B. With QUADRATURE AMPLITUDE MODULATION, we use orthogonal carriers to modulate TWO signals of bandwidth B onto the same carrier/

