Acoustic Modem Project Milestone 2

# 1 Exercise 3-1: Quadrature amplitude modulation (QAM)

4. Max distance ( example: 16-QAM: sqrt((4-1)^2 +(4-1)^2) peak power

Average distance: average of distances to point

5. Smaller QAM: distance is bigger between points, more precision

## 2 Exercise 3-2: Orthogonal frequency-division multiplexing (OFDM)

5. product van

* Number of encoded bits per QAM symbol = M
* QAM symbols per OFDM frame = (N/2-1)
* Number of OFDM frames transmitted per second = fs/(N/2 -1)