Assignment 7

Due April 1, 2011

- Give three representations of the elements of GF(32).

- Draw the block diagram of the encoder for a (15, 11) RS code.

- Describe different algorithms used in an RS decoder.

- Assume that a communication system uses QPSK modulation and a (255, 230) RS code.

Find the bit error probability for an $\frac{E_b}{N_0}$ of 5 dB.