EENG 410 Homework #4

1. Assume the 8-symbol sequence [0 1 1 1 1 1 0 0] is received by a system using an Orthogonal(8,3) code. Determine the most likely 3-bit message sent.

2. Calculate the cross-correlation coefficients for an Orthogonal(8,3) code if the received sequence is [0 1 0 0 0 1 1 1]. What would be your recommended decision in this case?

3. Determine B_4.

4. Assume the 8-symbol sequence [1 1 1 1 0 1 1 1] is received by a Bi-orthogonal(16,4) code system. Determine the most likely 4-bit message sent.

5. Determine the bandwidth expansion of a Trans-orthogonal(63,6) code.