r=1/2;

n = 2;

pe = 0.04;

p = 1 - pe;

gamma\_1 = 2\*(log(p)/log(2)) + 2\*(1-r);

gamma\_2 = (log(pe\*p)/log(2))+1;

gamma\_3 = 2\*(log(pe)/log(2))+1;

disp(gamma\_1, 'branch meteric for correct reception');

disp(gamma\_2, 'branch meteric for any one correct reception');

disp(gamma\_3, 'branch meteric for no correct reception');