D= bit probability even Prob & zero errors (1-p)4 Probol exactly one  $(4) p(1-p)^3$ Prob of upto 1 being 99.6%  $(1-p)^4 + 4p(1-p)^3 = 0.996$ let y=1-p  $y^4 + 4(1-y)y^3 = 0.996$ 443-344-0.996=D Solving to y y= 1.02, y=097 p=1-0.97