

3. ERROR CONTROL AND CRC 3.1 [1 2 3 4] 3.2 [1 2 3 4 5 6 7 8 9 10]

3.1 ERROR CONTROL

[1 2 3 4]

3.1.1.

An upper-layer packet to is split in 10 frames, each of that which has an 80% of arriving undamaged. It no error control is done, how many times must solve each pake packet be sent on energe to get the entire thing through?

Pachet Pasplit inho frames Ft, Fy..., Fro

 $P(F_{1} ch) = P_{5} = 800 0.8$ $P(p ch ch) = P(\bigcap_{i=1}^{10} F_{i} ch) = \prod_{i=1}^{10} P(F_{1} ch) = P_{5}^{10}$

May 14 - 1-11-210 + 2-(1-2) 10 pio + 3-(1-2) 10

 $= P_s^{(0)} \frac{1}{(P_s^{(0)})^2} = \frac{1}{P_s^{(0)}} = \frac{1}{P_s^{(0)}} = \frac{1}{(1-(1-P_s^{(0)})^2)^2} = \frac{1}{(1-P_s^{(0)})^2} = \frac{1}{(1-P_s^{(0)})^2} = \frac{1}{($