Οι εκφωνήσεις είναι αναρτημένες: «Αναγνώστου» -> «Ασκήσεις»

Acrnon 1 p = 10-7 sec = 10 msec 6 11 $\mu = \frac{100 \cdot 10^3}{900 \cdot 10^6} = 0.5 \cdot 10^{-3} \text{sec}$ $\Rightarrow \mu = 0,5$ msec Siv proveas dagn $\rho' = \frac{100}{10^5} = 1$ msec β) $\rho = 10\mu sec$, $\rho' = 1\mu sec$ $\mu = 500 \, \mu \text{sec} \Rightarrow \eta - 10 \approx 10^{-7}$

900.000

Aoknon 2

MEIH TIUH

ASKHIH 5

AZKHIH 6

Tapatro

odioanons

TAB = 3000 60 Lbps

 $p = p' = \frac{10^2}{10^8} = 10^{-6}$ = 1µsec

AGKNON 3

Pr
$$\{X_i = 1\} = \varepsilon$$

Pr $\{X_i = 1\} = \varepsilon$
 $\{X_i$

 $\eta = \frac{\rho}{2\mu + \rho + \rho'} = \frac{n/10^{7}}{2 \cdot 10^{-3} + \frac{n}{10^{7}} + \frac{60}{10^{7}}} = \frac{\eta}{n + (2.170)}$

 $Y = \frac{P}{(1+\bar{N}).S} = \frac{P(1-e)}{S}, \bar{N} = E\{N\} = \frac{e}{1-e} \begin{pmatrix} \alpha\phi0\dot{\nu} & \dot{\epsilon}\dot{\nu}\alpha_i \\ \xi\epsilon\omega\mu\epsilon\tau\rhoi\epsilon\dot{n} \\ \kappa\alpha\tau\alpha\nu\rho\dot{\nu}\dot{n} \end{pmatrix}$

 $1-p=I(k)ε^{k}(1-ε)^{N-k} \rightarrow πιθανότητα να έχω$ στομάδρο ν ύκοπ οτ

•
$$E\{N\} = \sum_{k=0}^{\infty} k Pr\{N=k\} = \sum_{k=1}^{\infty} k(1-e)e^{k} = -C1-e)e \sum_{k=1}^{\infty} k e^{k-1}$$

• $A_{\underline{X}KH\underline{Y}H} \underline{A}$

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 $5 = 2\mu + p + p' = 52.10^{-6} = 52 \mu sec$ $\Gamma = 100 \text{ bits}$ = 1,92.106 \approx 2 Mbps 52.10-6sec

 $\mu = \frac{5.10^3}{10.105} = 2.5.10^{-6} \text{ sec} = 25 \,\mu\text{sec}$

(On sec • $\overline{N} = \underline{\varepsilon}$, $1 + \overline{N} = \underline{1}$ $1 - \underline{\varepsilon}$

· 50 · 1 2 (00 => 221

$$\frac{1000}{5} = \frac{1000}{1000} = \frac{1}{1000}$$

$$\frac{1000}{1000} = \frac{1}{1000} + \frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000} + \frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000} + \frac{1}{1000} = \frac{1}{1000}$$

P=103 = (0 msec