MOBILNE XOMUNIXACIJE

MSK

$$\frac{Rb}{B} = 1 \text{ bit/s/H}_2$$

26- teoretsku max brzina kyja se može odrediti

broj bitova: 156,25 bitova trajanje bita: T= 575/25

B) brzina prijenosa bita GSM

$$2b = S_0 \cdot 2s$$
 $2b = 1 ? s$
 $Ts = Tb = \frac{1}{2b} = \frac{5.69 \cdot 10^{-6}}{10^{-6}} s$

trajunje

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Basn.
$$T_s = 0.3$$

Basn = $\frac{0.3}{T_s} = 81.3 \text{ kHz}$

2AD 2.

2AD 3.

K-broj kanalu P(B)- vjerojatnost blokiranja Ap - Ponuđeni promet

- A Droj K=20, Ap=15,25 Erl; P(B)=? P(B)=5%
- B K=25, P(B)=2%, Ap=1Ap=17,505 Erl
- (C) P(B) = 0,005 A = 13,4 N N= 25 kanala

2AD 3.

AMPS Sustau => 300 govornih kanala veličina grada N=7 P(B)=2%

- A) Max promet que deliji v Erl Kd= 300 = h2,86 = h2 Ap = 32,836 Erl za cijeli groad: 7 x Ap
- (B) N=9 n=4 C/I=7,

$$\left(\frac{c}{1}\right)_{tot} = \frac{c}{2 l_0 - 2 l_0^{-n} + 2 (0) l_0^{-n} + 2 (0 + 2)^{-n}} / \frac{2^{-n}}{2^{-n}}$$

$$= \frac{1}{2(\mathbb{R})^{n} + 2(\mathbb{R} - 1)^{n} + 2(\mathbb{R} + 1)^{n}} = \frac{1}{6}(\mathbb{R})^{n}$$

$$\mathbb{R} = \sqrt{3N} = 21$$

$$\mathbb{R} = \frac{1}{6}(\mathbb{R})^{n} = \frac{1}{6}(\mathbb{R})^{n}$$

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Seldoriranje 6
$$N=3$$

$$D=\sqrt{3}=3$$

$$C=(D)^{n}$$

$$Seldoriranje 3$$

$$C=\frac{1}{2}(D)^{n}=1431dB$$

$$\langle Y \rangle$$

$$\begin{array}{l} \text{(E)} \quad = 14.31 \, \text{db} \Rightarrow \text{ngigori dobivent} \\ \text{N} = 4 \\ \text{D} = 5 \, \text{km} \\ \text{D} = 5 \, \text{km} \\ \text{C} = \frac{1}{3} \, \left(\frac{D}{R} \right)^{n} \\ \text{C} = \frac{1}{3} \, \left(\frac{D}{R} \right)^{n} \\ \text{C} = \frac{1}{3} \, \left(\frac{D}{R} \right)^{n} \\ \text{Con log} \left(\frac{D}{R} \right) = 10 \, \text{log} \, \text{S} + 10 \, \text{log} \, \text{G} \\ \text{Con log} \left(\frac{D}{R} \right) = 0.477 \\ \text{D} = 10^{0.477} = 0.477 \\ \text{D} = 2.999 \\ \text{D} = 2.999 \\ \text{D} = 1667 \, \text{m} \end{array}$$

$$\begin{array}{c}
C_{11} \\
C_{1$$

$$H = \begin{bmatrix} 0.5 & 0.3 \\ -0.6 & 0.14 \end{bmatrix}$$

$$H = \begin{bmatrix} 0.5 & 0.3 \\ -j0.6 & j0.14 \end{bmatrix}$$
 $H = \begin{bmatrix} 0.5 & j0.6 \\ +0.3 & -j0.4 \end{bmatrix}$
 $\begin{bmatrix} 0.5 & j0.6 \\ +0.3 & -j0.4 \end{bmatrix}$
 $\begin{bmatrix} 0.5 & j0.6 \\ -j0.6 & j0.4 \end{bmatrix}$
 $\begin{bmatrix} 0.5 & j0.6 \\ -j0.6 & j0.4 \end{bmatrix}$

$$\frac{1}{H} = \begin{bmatrix} 0.5 & j0.6 \\ +0.3 & -j0.4 \end{bmatrix} \begin{bmatrix} 0.5 & 0.3 \\ -j0.6 & j0.4 \end{bmatrix} = \begin{bmatrix} 0.61 & -0.05 \\ -0.09 & 0.25 \end{bmatrix}$$

$$det(H'- \pi I) = det[-0.09]$$

$$(0.61-7)(0.25-7)-(0.09)^2=0$$

$$7^2 - 0,867 + 0,144 = 0$$

$$71 = 0.63125 = 0.20$$

$$\mathcal{D} = \begin{bmatrix} d_1 & 0 \\ 0 & d_2 \end{bmatrix} = \begin{bmatrix} 0.7945 & 0 \\ 0 & 0.4783 \end{bmatrix}$$