udp Escuela de Informática y Telecomunicaciones
FACULTAD DE INGENIERÍA

$$\left[\left(93{,}3710/37094\right)\left(93{,}3830/37072\right)-1\right]$$
$$\left[\left(VC\,Final/UF\,Final\right)/\left(VC\,Inicial/UF\,inicial\right)-1\right]$$

FORMULARIO

$$t=int\left(\frac{D_{min}-1}{2}\right) \qquad c=3\times10^8\ [m/s] \qquad r_t=8497\ [km]$$

$$P_r=\frac{P_tG_tG_r\lambda^2}{(4\pi d)^2} \qquad d=\sqrt{(2\cdot r\cdot h)} \qquad I_j=\log_2\left(\frac{1}{P_j}\right)bits$$

$$D_{min}-1=e+t \qquad C_i\oplus C_j=C_k$$

$$H=\sum_{j=1}^{m}P_j\cdot I_j=\sum_{j=1}^{m}P_j\cdot\log_2\left(\frac{1}{P_j}\right)bits \qquad R=\frac{H}{T}\ bits/s$$

$$P(e>R'errores)=1-\sum_{j=0}^{R}P(j\,errores)$$

$$P(j\,errores)=(P_e)^j(1-P_e)^{n-j}\,{}^nC_j \qquad \eta=\frac{R}{C} \qquad s(t)=\sum_{k=-\infty}^{\infty}\Pi\left(\frac{t-kT_s}{\tau}\right)$$

$$d<\frac{\sqrt{\frac{P_tG_tG_r\lambda^2}{S}}}{4\pi}$$

$$M(x)=m_{k-1}x^{k-1}+\cdots+m_1x+m_0 \qquad w(t)=A\cdot\cos(w_0\cdot t+\varphi_0)$$

$$P(j\,errores)=(P_e)^j(1-P_e)^{n-j}\,{}^nC_j$$

$${}^nC_j=\frac{n!}{j!(n-j)!}=\binom{n}{j} \qquad t=\frac{n-k}{2} \qquad C=B\cdot\log_2\left(1+\frac{S}{N}\right)$$

$$\lambda=\frac{c}{f_c} \qquad n=\sqrt{1-\frac{81\cdot N}{f^2}} \qquad d^2+r^2=(r+h)^2 \qquad d^2=2rh+h^2$$

0,999 - 1

$$\left(\frac{S}{N}\right)_{dB}=6.02n+\alpha$$

$$M=2^n$$

$$\left(\frac{S}{N}\right)_{salida}=M^2 \qquad \eta_{max}=\log_2\left(1+\frac{S}{N}\right) \qquad \lambda=\frac{c}{f_c} \qquad d=\sqrt{(2\cdot r\cdot h)}$$

$$\frac{A_j^2}{R_c/R_b} \qquad \frac{A_c^2}{2R_c} \qquad \frac{R_b}{R_c} \qquad N=\frac{\delta^2B}{3f_s}=\frac{4\pi^2A^2f_a^2B}{3f_s^3} \qquad r_{tierracorregido}=8497\times10^3m \qquad P_r=\frac{P_tG_tG_r\lambda^2}{(4\pi d)^2}$$

$$B_T=2\Delta F+(1+r)R$$

$$B_T=\left(\frac{1+r}{l}\right)R \qquad B=(1+r)R \qquad B_T=2(\beta+1)B \qquad P_l=\left(\frac{1}{2}\right)^K=2^{-K}$$

$$C=B\cdot\log_2\left(1+\frac{S}{N}\right) \qquad D=\frac{R}{l} \qquad D=\frac{2B}{1+r}$$

$$Mod_{Pct}=\frac{A_{max}-A_{min}}{2\cdot A_t}\cdot100=\frac{max[m(t)]-min[m(t)]}{2}\cdot100 \qquad B_{PCM}\geq\frac{1}{2}R=\frac{1}{2}n\cdot f_s$$

0,705
0,7405

365 | Rango( )

4,3

1,57

1,36

1,52