المالالي الم

|
$$\begin{cases} S_{x}: | w_{a} + t \\ M_{x}: 0.25 \\ S_{T}: 200 \text{ Wath} \end{cases}$$
 | $(\frac{S}{N})_{0_{1}} = \frac{J_{x}^{2} S_{x_{1}}}{1 + J_{x}^{2} S_{x_{1}}} \times \frac{S_{R_{1}}}{N_{0_{1}} \omega_{1}}$ | $(\frac{S}{N})_{0_{2}} = \frac{J_{x}^{2} S_{x_{2}}}{1 + J_{x}^{2} S_{x_{2}}} \times \frac{S_{R_{2}}}{N_{0_{2}} \omega_{2}}$ | $(\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{2}} = \frac{J_{x}^{2} S_{x_{2}}}{1 + J_{x}^{2} S_{x_{2}}} \times \frac{S_{R_{2}}}{N_{0_{2}} \omega_{2}}$ | $(\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{2}} = \frac{J_{x}^{2} S_{x_{2}}}{1 + J_{x}^{2} S_{x_{2}}} \times \frac{S_{R_{2}}}{N_{0_{2}} \omega_{2}}$ | $(\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{1}} = (\frac{S}{N})_{0_{2}} = ($

$$\frac{\#}{2} \int_{X=0.5}^{S_{T=100}Watt} \frac{\left(\frac{S}{N}\right)_{0}}{\int_{1+J^{2}S_{X}}^{S_{X}} \times \frac{S_{R}}{N_{0}W}} = \frac{0.25\times0.5}{1\times0.25\times0.5} \times \frac{120}{10^{-5}\times5\times10^{3}} = 266.66$$

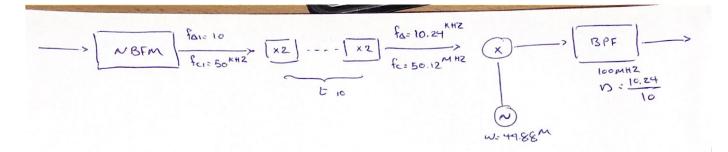
$$\frac{S}{N} = \frac{0.5J^{2}}{N_{0}} \times \frac{120}{10^{-5}N^{2}} \times \frac{120}{10^{-5}N^{2}} = 266.66$$

$$\frac{S}{N} = \frac{0.5J^{2}}{1+0.5J^{2}} \times \frac{120}{10^{-5}N^{2}} \times \frac{120}{10^{-5}N^{2}} = 266.66$$

$$\Rightarrow \mathcal{M} = 1 \Rightarrow \mathcal{M} \times \frac{0.5\times1}{1+0.5} \times \frac{120}{10^{-5}N^{2}} = 266.66$$

$$\Rightarrow \mathcal{M} = 15 \times 15 \times 12$$

#3
$$\int_{C_{1}=50}^{6} \int_{C_{1}=50}^{6} \int_{C_{1}=50}^{6}$$



#4
$$S_{x=1}$$

$$W=10^{4}$$

$$N_{0}=10^{6}$$

$$L=100 dB$$

$$f_{c}=100 MHZ$$

$$f_{a}=150 KHZ$$

$$S_{A}=20 (17) \times 10^{6} \times 10^{4} = 3.4 \text{ wath}$$

#5
$$S_{T=1W}$$
 $W=400 \text{ kHz}$
 $S_{X=0.2}$
 $S_{X=0.2}$
 $S_{X=0.2}$
 $S_{X=0.2}$
 $S_{X=0.2}$
 $S_{X=0.2}$
 $S_{X=0.3}$
 $S_{X=0.4}$
 $S_{X=0.2}$
 $S_{X=0.2}$

L= 117 dB = 10 x => x= 11.4 km

$$S_{R} > 160 \text{ N. } \omega = 160 \times 8 \times 10^{2} \times 400 \times 10^{3} = 5.27 \times 10^{12} = 5 \text{ L} = \frac{S_{T}}{S_{R}} = \frac{100 \times 10^{12}}{5.27} = 2 \times 10^{12}$$

$$= 133 = 10 \times 10^{12} \times 13.3 \text{ km}$$

#6

$$f_{i} = 70 + 0.77$$
 $f_{i} = 70 + 0.77$
 $f_{i} = 1.0$
 $f_{$