

$$lgI = lgI - lgI =$$

$$= lgI + 12$$

1) 
$$I = \frac{P_s}{4\pi z^2} = \frac{5.0 \times 10^4 \text{W}}{2\pi (30 \text{ m})^2} = 8.841 \dots \frac{W}{m^2} = 8.8 \text{W}$$

$$I_{1}\pi_{1}^{2} = I_{2}\pi_{2}^{2}$$

$$I_{2} = \frac{I_{1}\pi_{1}^{2}}{R_{2}^{2}} = 0,00198...\frac{W}{M^{2}} = 2,0 \times 10^{-3} \frac{W}{M^{2}}$$

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N 43

$$f_3 = \frac{3N}{2L} = > N = \frac{2f_3L}{3} = \frac{2(1,8Hz)(2,0m)}{3} = 2,4 \frac{m}{3}$$

$$T = \frac{1}{1} = 0,050$$

$$\lambda_1 = 0,46 \,\mathrm{m}$$

$$f_2 = \frac{\sqrt{5}}{\lambda_2}$$

$$\frac{1}{0,0500} = \frac{340\%}{\lambda_2} = \frac{340\%}{0,46m}$$

$$\Rightarrow$$
  $20 = \left| \frac{340}{\lambda_2} - \frac{340}{0,46} \right|$ 

$$\frac{1}{0,050} = \frac{340\%}{\lambda_{z}} - \frac{340\%}{0,46\%}$$

$$\frac{1}{0,050} = \pm 340\left(\frac{1}{\lambda_{z}} - \frac{1}{0,46}\right)$$

$$\frac{340}{\lambda_{z}} = \frac{340}{\lambda_{z}} \pm 20$$

$$\frac{340}{\lambda_z} = \frac{340}{0,46} \pm 20$$

$$\frac{1}{9,050} = \pm 340 \left( \frac{1}{\lambda_2} - \frac{1}{9,46} \right)$$

$$\frac{1}{340.9050} = \pm \frac{0,46 - \lambda_2}{0,46\lambda_2}$$

$$\frac{9,46\lambda_2}{340.9,050} = \pm \left( 9,46 - \lambda_2 \right)$$

$$\frac{1}{340.0050} \lambda_{2} + \lambda_{2} = 0.46 = \lambda_{z} = 0.447...m$$

$$= 0.46$$

$$= 0.46$$

$$\frac{0.46}{340.9050} \lambda_2 - \lambda_2 = -0.46 \Rightarrow \lambda_{2} = 0.47 \text{ m}$$