2.4. NETWORK DEPLOYMENT

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2.4.1.

Radis antennos are usually designed to make the diameter equal to the wavelength. If their dimension goes from to be some what is the frequency range? $f_{\lambda}=c=\gamma f=\frac{C}{2}$

$$7=1 \text{ cm} = 7 = \frac{340^8 \text{ m/s}}{0.01 \text{ m}} = 30 \text{ GHz}$$

$$7=5 \text{ m/s} \Rightarrow f = \frac{3.10^8 \text{ m/s}}{0.05 \text{ m}} = 80 \text{ MHz}$$

$$60 \text{ MHz}$$

$$60 \text{ MHz}$$

2.4.2.

A belephone company with LM users connects every phone with the central station by a copper twisted poir, to st mean length to him, I mm diameter, 9 glcm³ density and 5-76 this price. What is the economic value of this intrastructure?

DM users 2-10 km, 7-120 mm2.4m, ag. 5.76 tg = 8 143.008 M\$