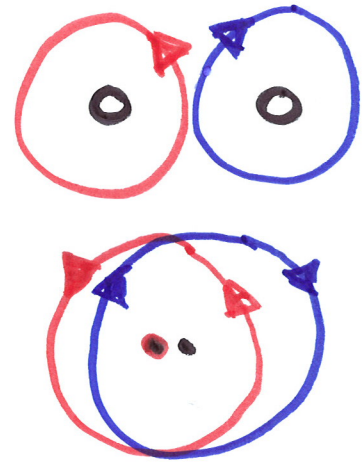
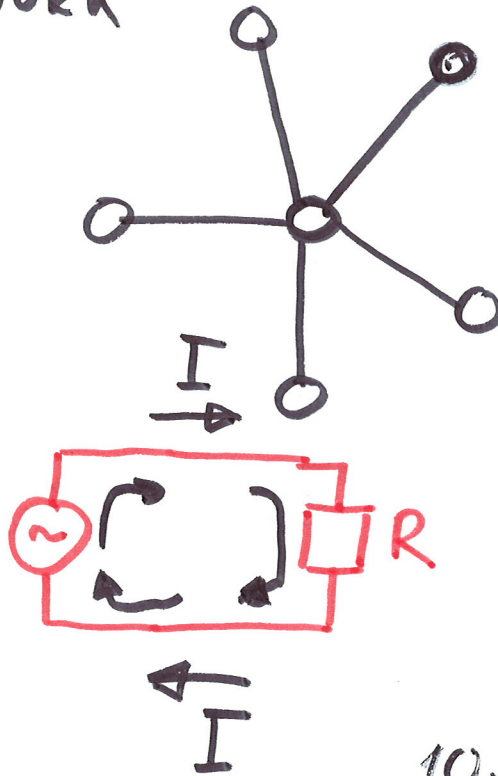


26.03.17

7

TÄHTVÖRK



UTP

UNSHIELDED  
TWISTED  
PAIR

STP

CAT 5

CAT 5E

CAT 6

SNELL

$$n_1 \cdot \sin \theta_i = n_2 \cdot \sin \theta_m$$

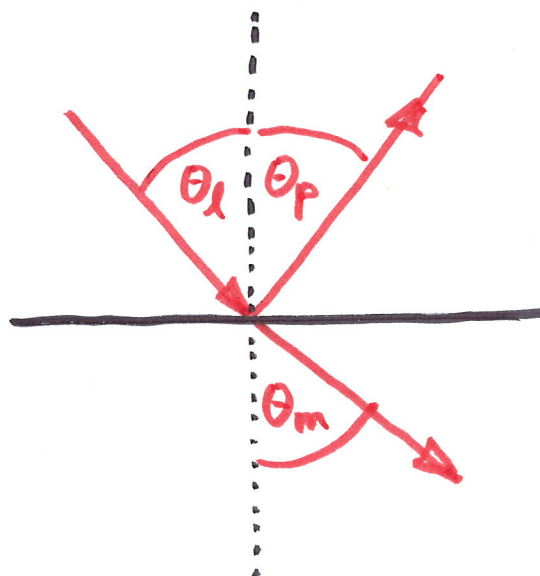
$$\theta_{cr} = \arcsin \frac{n_2}{n_1}$$

$$10 \cdot \log \frac{P_n}{P_s} \text{ [dB]}$$

$$10 \cdot \log \frac{U_n^2}{U_s^2} = 10 \cdot \log \left( \frac{U_n}{U_s} \right)^2 = 20 \log \frac{U_n}{U_s}$$

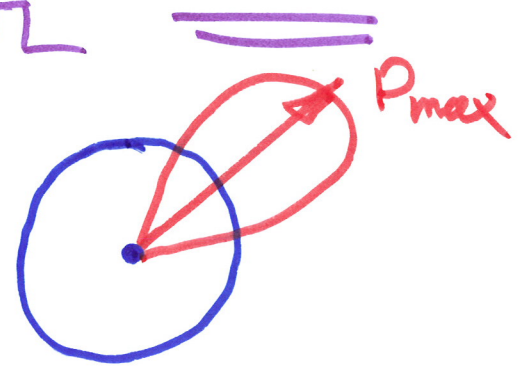
POE

$$\theta_i = \theta_p$$





GRADIENT KIVU



1W

$$A = 4\pi d^2$$

1m KAUGUSEL 1W VÕIMSUSEL:

$$\Pi = \frac{1W}{4\pi m^2} \left[ \frac{W}{m^2} \right] \quad \rightarrow \quad 4\pi \left( \frac{d}{\lambda} \right)^2$$

dm KAUGUSEL:  $\Pi = \frac{P_s}{4\pi d^2} \left[ \frac{W}{m^2} \right]$

$$P_{vv} [dBm] = P_s [dBm] + G_s [dB] + G_{vv} [dB] - FSL [dB] - L [dB]$$

LINK BUDGET  
LINGI BILANSS

FEEDING