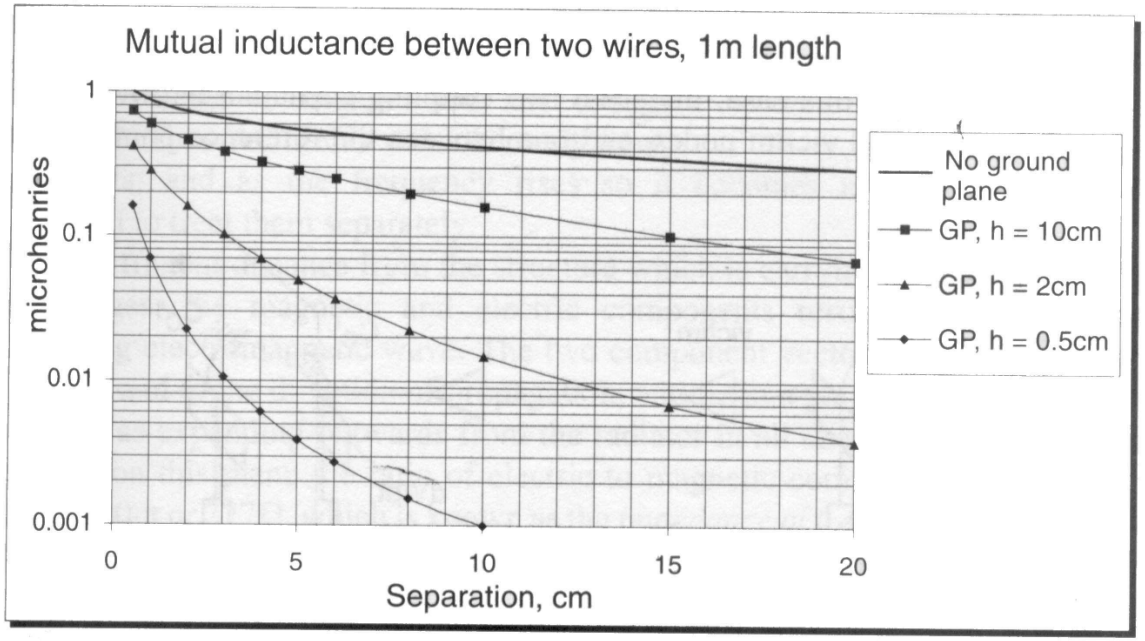
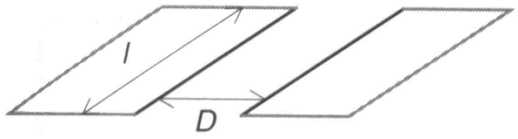
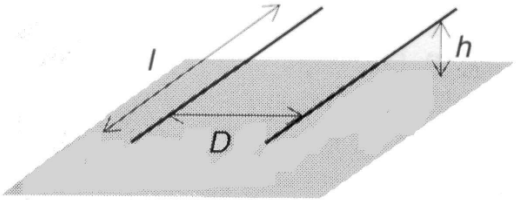
2.6 Gensidig induktans





Two wires, no ground plane, $D/l << 1$

$$M = 0.002 \cdot l \cdot \left(ln\left(\frac{2l}{D}\right) + \frac{D}{l} - 1\right)$$

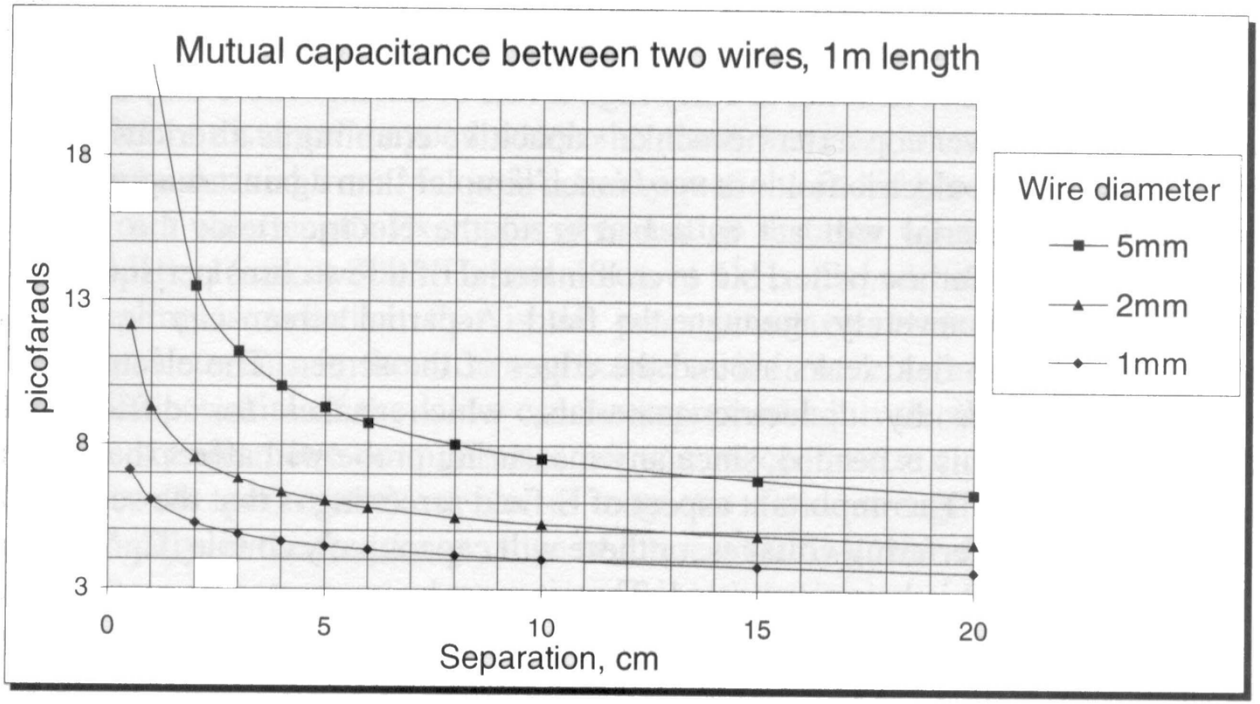


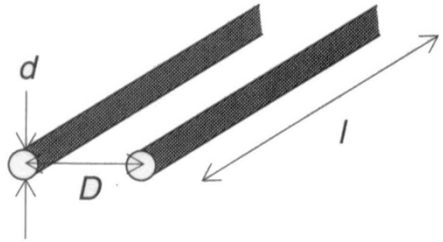
Return current through ground plane

$$M = 0.001 \cdot l \cdot ln\left(1 + \left(\frac{2 \cdot h}{D}\right)^2\right)$$

M in microhenries

2.6 Gensidig kapacitet





$$C = \frac{0.0885 \cdot l \cdot \pi}{\operatorname{acosh} \frac{D}{d}}$$

C in picofarads, $\varepsilon_r = 1$

(All dimensions in cm)