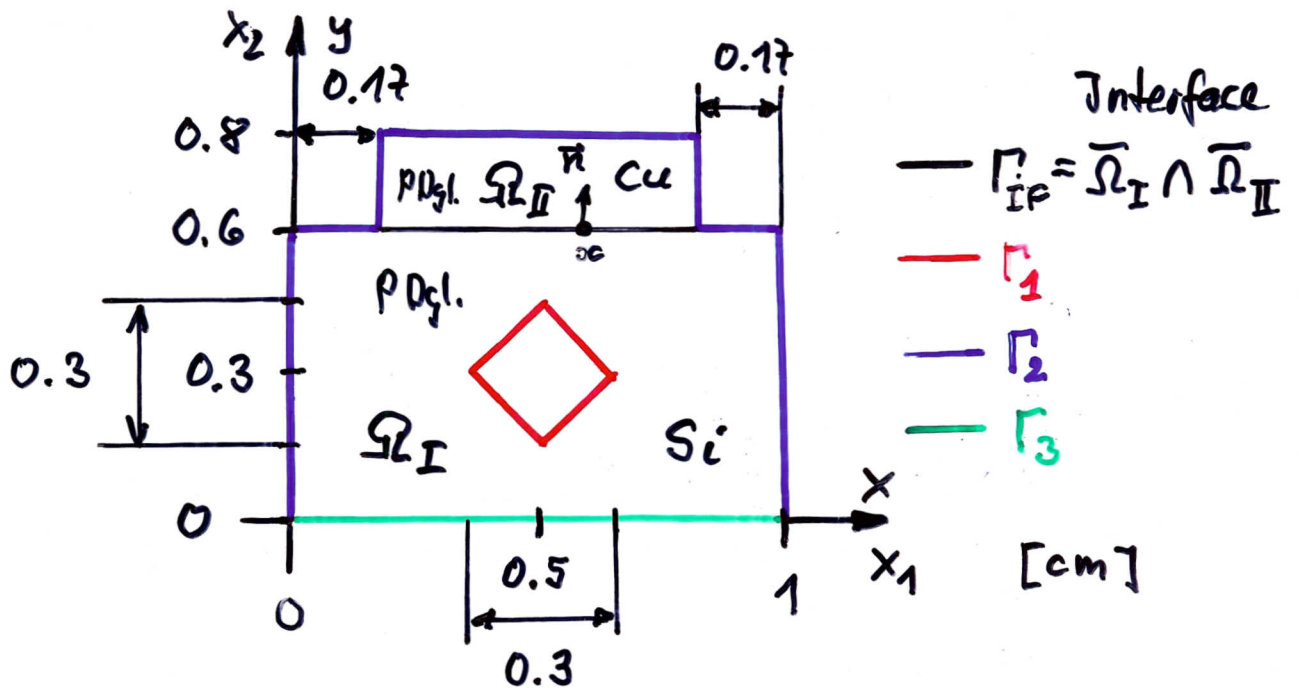


## ■ Beispiel 2.17: Wärmeleitproblem "CHIP"

Ges. Temperaturfeld  $u(x)$ ,  $x = (x_1, x_2) \in \bar{\Omega}$

Geg. Gebiet  $\bar{\Omega} = \text{"CHIP"}$



- $f \equiv 0$  (Keine Wärmequellen)

- $a \equiv 0$  (Kein Wärmeaustausch in  $z$ -Richtung)

- $\lambda_1(x) = \lambda_2(x) = \lambda(x) := \begin{cases} \lambda_{Cu} = 3.95 \left[ \frac{W}{cmK} \right], & x \in \Omega_{II} \\ \lambda_{Si} = 0.01 \left[ \frac{W}{cmK} \right], & x \in \Omega_I. \end{cases}$   
 $\uparrow$   
 isotrop

- $\Gamma_1$ :  $g_1 = 500 \text{ K}$

- $\Gamma_2$ :  $g_2 = 0$  (Isolation)

- $\Gamma_3$ :  $g_3 = 300 \text{ K}$

$$\alpha = 0.2 \left[ \frac{W}{cm^2K} \right]$$