

Remarks: See §6.2, pages 415 till 426

See §6.4 example 1 and 2, pages 446 till 453

Answer:

a. $t = 3,15 \text{ mm}$

b. $\Delta\varphi \approx 33,3 \times 10^{-3} \text{ rad} \approx 1,91^\circ$

Explanation:

$R_i = 34,35 \text{ mm}$ - to be determined with the formula for a thick walled circular tube (See pages 424 and further)

$$I_p = 918,75 \times 10^3 \text{ mm}^4$$