

4.1 $p_u = 150 \text{ bar} = 15 \frac{\text{N}}{\text{mm}^2}$

$\psi = \frac{d_u}{d_s} = \frac{80}{100} = 0,8 < 0,9 \rightarrow$ *цвг* *гебенул зугота*

$\delta = B \cdot \epsilon$

$\sigma = E \cdot \epsilon \rightarrow \epsilon = \frac{\sigma}{E}$

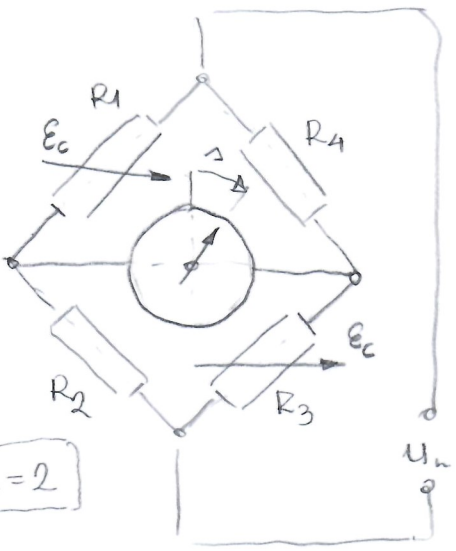
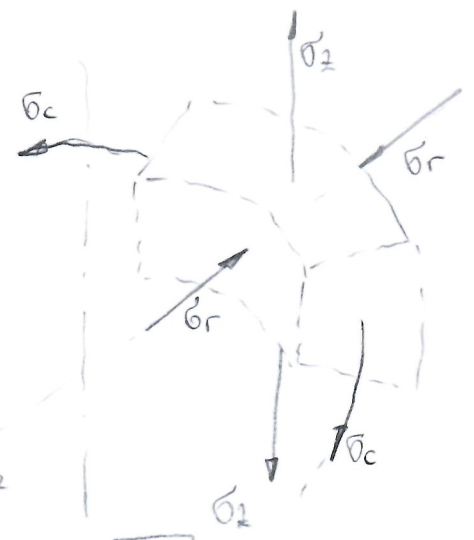
$\sigma_{c1} = p_u \cdot \frac{1 + \psi^2}{1 - \psi^2} = 15 \cdot \frac{1 + 0,8^2}{1 - 0,8^2} = 68,34 \frac{\text{N}}{\text{mm}^2}$

$\sigma_{c1} = 68,34 \frac{\text{N}}{\text{mm}^2}$

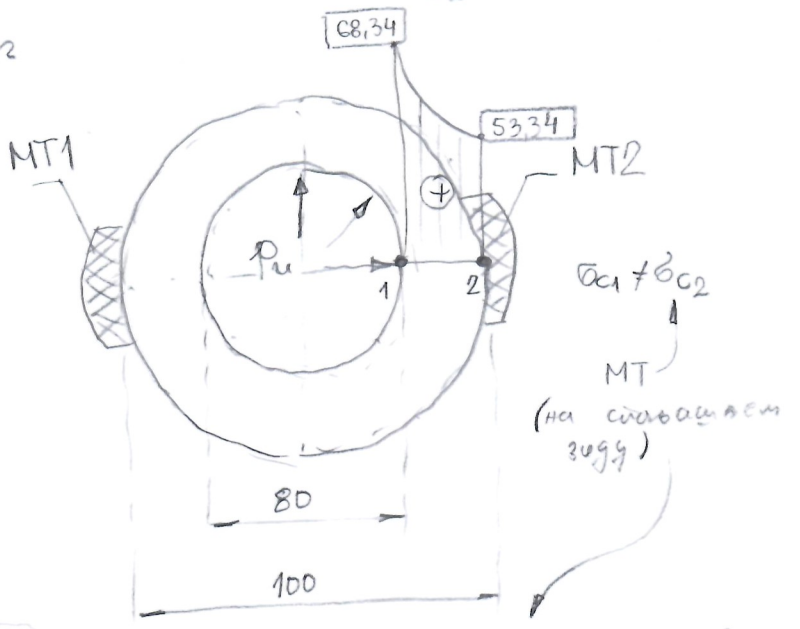
$E = 210\,000 \frac{\text{N}}{\text{mm}^2}$

$\sigma_{c2} = p_u \cdot \frac{2 \cdot \psi^2}{1 - \psi^2} = 15 \cdot \frac{2 \cdot 0,8^2}{1 - 0,8^2} = 53,34 \frac{\text{N}}{\text{mm}^2}$

$\sigma_{c2} = 53,34 \frac{\text{N}}{\text{mm}^2}$



$B=2$



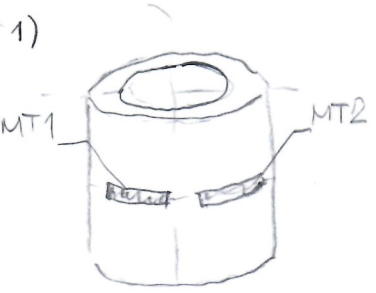
$\epsilon = \frac{\sigma_{c2}}{E} = \frac{53,34}{210\,000} = 254 \cdot 10^{-6}$

Скрейтање казале:

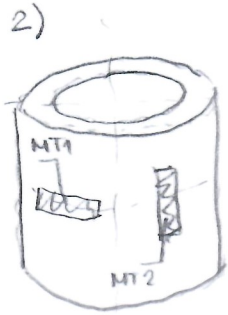
$\delta = B \cdot \epsilon = 2 \cdot 254 \cdot 10^{-6}$

$\delta = 508 \cdot 10^{-6}$

Најповољнији положај:



$B=2$



$B=1+\psi$

Вече појатање мерити мерила!!!



$B=2 \cdot \psi$

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