



anspormação de deformação

$$\mathcal{E}_{n'} = \frac{\mathcal{E}_{n} + \mathcal{E}_{y}}{2} + \frac{\mathcal{E}_{n} - \mathcal{E}_{y}}{2} \times (os(2\theta) + \frac{\gamma_{ny}}{2} \times en(2\theta))$$

$$\mathcal{E}_{y'} = \frac{\mathcal{E}_{n} + \mathcal{E}_{y}}{2} = \frac{\mathcal{E}_{n} - \mathcal{E}_{y}}{2} \times (os(2\theta) - \frac{\gamma_{ny}}{2} \times en(2\theta))$$

$$\gamma_{n'y'} = -(\mathcal{E}_{n} - \mathcal{E}_{y}) \times (os(2\theta) + \gamma_{ny} \times en(2\theta))$$

$$+g(\alpha\theta) = \frac{\gamma_{ny}}{\epsilon_{n}-\epsilon_{y}} \qquad \epsilon_{max/min} = \epsilon_{med} + R$$

$$\epsilon_{med} = \epsilon_{n}+\epsilon_{y} \qquad R = \sqrt{\left(\frac{\epsilon_{n}-\epsilon_{y}}{2}\right)^{2} + \left(\frac{\gamma_{ny}}{2}\right)^{2}}$$

$$\gamma_{max} = 2R \qquad \epsilon_{c} = -\frac{\gamma_{c}}{1-\gamma_{c}} (\epsilon_{a}+\epsilon_{b})$$

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Extensometria

In value a deformação normal ao Aresistência elétrica En e $Ey \Rightarrow medidos$ diretamente $E_1 = E_1 \cos^2\theta_1 + E_2 \sin^2\theta_1 + Y_{ny} \sin\theta_1 \cos\theta_1$