

Consider Michaness Soc-

work in terms of $Joi, \Rightarrow \delta x_2 = \delta x, \sin \theta$ $\delta x_2 = \delta x, \cos \theta$

 $\Sigma F_{1}=0$: δ_{11} , δ_{12} , δ_{13} , δ

- 5,2 52, coso. 8x3. sino - 522, 826, sino, 5x3 sino

 $- \sigma_{z_1} \cdot \delta \widetilde{x_1} \sin \theta \cdot J x_2 \cos \theta = 0$

 δx_3 is cancel, $\delta_{21} = \delta_{12}$

=> O = cus 0 o 1 + six 0 oz + 2 cus 0 six 0 oz

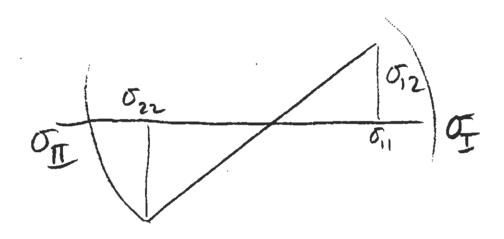
and Similarly for Fiz

$$\frac{d\tilde{O}_{11}}{d\Theta} = -2\tilde{Q}(\cos\Theta \sin\Theta + 2\tilde{Q}(\sin\Theta \cos\Theta + 2\tilde{Q}(\sin\Theta \cos\Theta)) + (2\cos^2\Theta - 2\sin^2\Theta) + (2\cos^2\Theta - 2\sin^2\Theta) + (2\cos^2\Theta - 2\sin^2\Theta + 2\cos^2\Theta) + (2\cos^2\Theta - 2\sin^2\Theta + 2\cos^2\Theta) + (2\cos^2\Theta - 2\sin^2\Theta + 2\cos^2\Theta + 2\cos^2\Theta + 2\cos^2\Theta + 2\cos^2\Theta + 2\cos^2\Theta + (2\cos^2\Theta - 2\cos^2\Theta + 2\cos^2\Theta + 2\cos^2\Theta + (2\cos^2\Theta - 2\cos^2\Theta + 2\cos^2\Theta + (2\cos^2\Theta - 2\cos^2\Theta + (2\cos^2\Theta + (2\cos^2\Theta - 2\cos^2\Theta + (2\cos^2\Theta + (2\cos^2\Theta$$

$$tun 20 = 2012$$

$$(022-011)$$

ct. Mohr's cucle



 $\Sigma F_{X} = 0$ $\sigma_{12} \int \widetilde{x}_{1} \int \mathcal{S}x_{2} + \widetilde{\sigma}_{11} \int \mathcal{S}x_{1} \cos \theta \int \mathcal{S}x_{2} \sin \theta$ $-\sigma_{12} \int \widetilde{x}_{1} \cos \theta \int \mathcal{S}x_{2} \cos \theta - \sigma_{22} \int \widetilde{x}_{1} \sin \theta \cdot \delta x_{12} \cos \theta$ $+ \sigma_{21} \int \widetilde{x}_{1} \sin \theta \int \mathcal{S}x_{2} \sin \theta = 0$ $\Rightarrow \widetilde{\sigma}_{12} = -\cos \theta \sin \theta \int_{11} + \cos \theta \sin \theta \int_{22} \cos \theta$ $+ (\cos^{2} \theta - \sin^{2} \theta) \int_{12} = -\sin^{2} \theta$