

$$\sigma_{11}(x_1, x_2) = p_0 \int_{-a}^a \sqrt{1 - \left(\frac{x'}{a}\right)^2} \sigma_{11}(r', \theta') dx'$$

$$r' = \sqrt{(x_1 - x')^2 + x_2^2} \quad \theta' = \arccos\left(\frac{x_1 - x'}{r'}\right)$$

$$\sigma_{11}(r', \theta') = \frac{\cos \theta'}{\pi r'} [\mathbf{N}_3(\theta')_{11}(\mathbf{L}^{-1})_{12} + \mathbf{N}_3(\theta')_{12}(\mathbf{L}^{-1})_{22}]$$