

The strains are found to be of the form

$$\begin{aligned}\epsilon_r &= \epsilon_\theta = a_7 \\ \epsilon_z &= -2a_7, \quad \gamma_{rz} = 0\end{aligned}\tag{70}$$

Using, once again, the format given previously, the stresses become

$$\begin{aligned}\sigma_r &= \sigma_\theta = \tau_{rz} = 0 \\ \sigma_z &= \sigma_0 + b(2a_7)^n\end{aligned}\tag{71}$$

and a_7 is determined from the radial boundary condition.

$$a_7 = (R - R_0)/R\tag{72}$$

4. Two-Dimensional Hollow Wafer - With Shear. The admittance of a concentric hole along the wafer axis does not alter the form of the normal and shear stress equations, although the displacement coefficients will be different