

Erratum: “Size-Dependent Eshelby’s Tensor for Embedded Nano-Inclusions Incorporating Surface/Interface Energies” [Journal of Applied Mechanics, 2004, 71(5), pp. 663–671]

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Equations (21*b*) and (21*c*) and (22*b*) and (22*c*) in the published paper contain typographical errors. The error in Eqs. (21*b*) and (21*c*) involves a switching of the sign and a factor of 2 while the error in Eqs. (22*b*) and (22*c*) involves a switching of the signs. The corrected equations are written below.

Spherical Inclusion:

$$\varepsilon_{rr}(r) = - \left[\frac{3K^M \varepsilon^* - 2\tau_o/R_o}{4\mu^M + 3K^M + 2K^S/R_o} \right] \frac{2R_o^3}{r^3} \Big|_{r > R_o} \quad (21b)$$

$$\varepsilon_{\theta\theta}(r) = \varepsilon_{\phi\phi}(r) = \left[\frac{3K^M \varepsilon^* - 2\tau_o/R_o}{4\mu^M + 3K^M + 2K^S/R_o} \right] \frac{R_o^3}{r^3} \Big|_{r > R_o}. \quad (21c)$$

Cylindrical Inclusion:

$$\varepsilon_{rr}(r) = - \left[\frac{3K'^M \varepsilon^* - \tau_o/R_o}{2\mu^M + 3K'^M + K'^S/R_o} \right] \frac{R_o^2}{r^2} \Big|_{r > R_o} \quad (22b)$$

$$\varepsilon_{\theta\theta}(r) = \left[\frac{3K'^M \varepsilon^* - \tau_o/R_o}{2\mu^M + 3K'^M + K'^S/R_o} \right] \frac{R_o^2}{r^2} \Big|_{r > R_o}. \quad (22c)$$

Further, in the case of the cylindrical problem, an eigenstrain of $\varepsilon_{rr}^* = \varepsilon_{\theta\theta}^* = \varepsilon^*$ and $\varepsilon_{zz}^* = 0$ was assumed.

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