

J.R.BARBER, ELASTICITY, 4th edition

ERRATA — last updated July 8, 2024

Page 219, Equation (13.11)₁ should read

$$\sigma_{rr} = \sigma_{\theta\theta} = -\frac{2\mu B_y \cos \theta}{\pi(\kappa + 1)r};$$

[The factor of r is missing].

Page 354, The unnumbered equation after (21.3) should read

$$\omega_z = \frac{1}{2} \left(\frac{\partial u_y}{\partial x} - \frac{\partial u_x}{\partial y} \right) = \frac{1}{4\mu} \left(\frac{\partial^2 \phi}{\partial x \partial y} - \frac{\partial^2 \phi}{\partial y \partial x} \right) \equiv 0.$$

Page 391, Table 23.1, The entry for σ_{rr} for Solution P has the wrong sign. It should read

$$-\frac{1}{r} \frac{\partial \psi}{\partial r} - \frac{1}{r^2} \frac{\partial^2 \psi}{\partial \theta^2}$$

Page 591, The reference to Problem 36.11 should actually refer to Problem 36.16.