Errata: Elasticity Theory, Applications & Numerics, M. H. Sadd - Third Edition Printing

- Page 33 Equation (2.1.5); middle matrix element should be $\partial v / \partial y$
- Page 93 Equation in last line of Exercise 4.12 should read: $p = -\sigma_{kk}/3$ Case labels (a), (b), (c) in Exercise 4.13 should not be in bold
- Page 101 Equation (5.3.1); on LHS last sign should be minus instead of plus.
- Page 138 An additional line of text should be added to the end of Exercise 6.14: "where α is the angle of twist/length and reference should be made to relation (9.3.18)."
- Page 146 Second equation in (7.2.5) should read $\mu \nabla^2 v + ...$
- Page 180 Last sentence in second paragraph should read: "Exercise 8.15 demonstrates such an example."
- Page 195 Line after equation (8.4.41) should read: "where A, B and C are constants of integration, and K = 0 to satisfy (8.4.37)₃" Next eliminate K term in equation (8.4.42)₂ and in following unnumbered equation to read "C = 0, $B = \dots$ "
- Page 195 First line after equation (8.4.42) should read: "... (see Exercise 7.22).
- Page 206 Equation (8.4.62)₆ should read: $\int_a^b \sigma_\theta(r, \pi/2) r dr = 0$
- Page 214 Last two text lines before equation (8.5.2) should read: "while the corresponding displacements for the tangential load case can be determined from Exercise (8.31), assuming no vertical displacements of the y-axis and no rotation. Summarizing these results gives"
- Page 214 Last line in equation (8.5.2) under Tangential loading column should read

$$u_{\theta}(r,0) = u_{\theta}(r,\pi) = \frac{(1-v)X}{2E}$$

Page 215 Last line in equation (8.5.3) should read

$$\overline{u}_y = -\frac{2}{\pi E} \int_{-a}^{a} p(s) \log |x - s| ds + \frac{1 - v}{2E} \left[\int_{-a}^{x} t(s) ds - \int_{x}^{a} t(s) ds \right] + a_2$$

Page 229 Equation results in Exercise 8.31 should read:

$$u_r = -\frac{(1 - v)X}{\pi E}\theta\sin\theta - \frac{2X}{\pi E}\log r\cos\theta + A\sin\theta + B\cos\theta$$

$$u_{\theta} = -\frac{(1 - v)X}{\pi E} \theta \cos \theta + \frac{2X}{\pi E} \log r \sin \theta + \frac{(1 + v)X}{\pi E} \sin \theta + A \cos \theta - B \sin \theta + Cr + K$$

- Page 239 Remove stray mark on last line of Equation (9.3.5).
- Page 273 Exercise 9.6; compatibility relation in terms of stress should be $\frac{1}{r}\frac{\partial \tau_{rz}}{\partial \theta} \frac{\partial \tau_{\theta z}}{\partial r} \frac{\tau_{\theta z}}{r} = -2\mu\alpha$
- Page 278 Third line from bottom of Exercise 9.26, should have "... $a_1 = -\mu\alpha/7\pi^4, \dots$ "
- Page 360 Equation (11.7.14), fourth line should read

$$C_{44} = 2\mu_R$$
, $C_{22} - C_{23} = 2\mu_\theta = \frac{E_\theta}{(1 + v_{\theta R})}$

Page 367 First equation in Exercise 11.26 should read:

$$r^{2} \frac{d^{2}u}{dr^{2}} + r \frac{du}{dr} - \frac{E_{\theta}}{E_{r}} u = -\frac{(1 - v_{r\theta}v_{\theta r})}{E_{r}} \rho \omega^{2} r^{3}$$

- Page 389 Figure 12.6; make shading within dotted boundary either slightly lighter or darker than general example background.
- Page 528 Second line in Exercise 16.8* should make reference to "Exercise 8.26"
- Page 576 In Index add entry "Fixity Conditions, 162"