

Intermediate Solid Mechanics: Errata List (October 19, 2020)

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Chapter 1

- Page 7, expression (1.11) should read:

$$\mathbf{t}_n = -(\cos \varphi) \mathbf{t}_{-x} - (\sin \varphi) \mathbf{t}_{-y} . \quad (1.11)$$

- Page 8, Figure 1.6 should be:

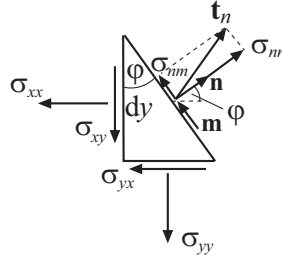


Fig. 1.6

- Page 23, expression (1.108) should read:

$$t_n^2 = \frac{1}{3} (\sigma_1^2 + \sigma_2^2 + \sigma_3^2) . \quad (1.108)$$

- Page 24, expression (1.110) should read:

$$\tau_{\text{oct}}^2 = t_n^2 - \sigma_{\text{oct}}^2 = \frac{1}{3} (\sigma_1^2 + \sigma_2^2 + \sigma_3^2) - \frac{1}{9} (\sigma_1 + \sigma_2 + \sigma_3)^2 . \quad (1.110)$$

Chapter 4

- Page 98, expression (4.60) should read:

$$\Omega_z = \frac{1}{2} \left(\frac{\partial u_y}{\partial x} - \frac{\partial u_x}{\partial y} \right) = \frac{M_z}{GJ} z . \quad (4.60)$$

Chapter 7

- Page 169, the first line of (7.8) should read:

$$\Phi = \theta, \quad \Phi = r^2 \theta, \quad \Phi = \theta \ln r, \quad \Phi = \theta r^2 \ln r ,$$

Chapter 11

- Page 356, Figure 11.2 should be:

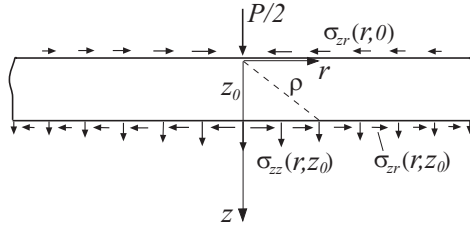


Fig. 11.2

- Page 359, Figure 11.5 should be:

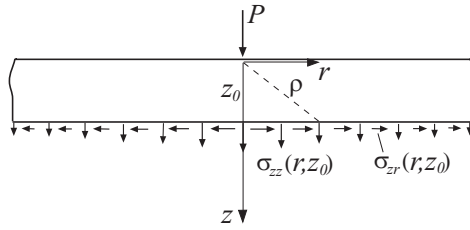


Fig. 11.5

- Page 363, in the third line below (11.45): "... $(1 - 2\nu)p_0/2$. For $\nu = 1/3$, this is $\tau_{\max} = p_0/6 = 0.167p_0$ " should be: "... $(1 - 2\nu)p_0/4$. For $\nu = 1/3$, this is $\tau_{\max} = p_0/12 = 0.083p_0$ ".

Chapter 13

- Page 461, in the second line below expression (13.81): "the stationary it condition" should be "the stationary condition".