

Errata for PLASTICITY THEORY

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May 12, 2005

- p. vii, l. 31: lapses in no should be lapses is no
- l. 34: (4.3.4), it is to should be (4.3.4), it is to an
- p. ix: 1.1.3. Vector and Tensors Calculus should be 1.1.3. Vector and Tensor Calculus
- p. xi: 3.5.1. Standard of Limit-Analysis Theorems should be 3.5.1. Standard Limit-Analysis Theorems
- p. xii: 6.1.2. Problems in Soil Mechanics should be 6.1.3. Problems in Soil Mechanics
- p. 3, 8th line from bottom: $u_i = \beta_{ki}\beta_{kj}u_j^*$ should be $u_i = \beta_{ki}\beta_{kj}u_j$
- p. 16, 2nd line of 3rd paragraph: $dx_{i(1)}$ should be $dx_i^{(1)}$; $dx_{i(2)}$ should be $dx_i^{(2)}$
equation above “But”: $dx_i^{(1)}dx_i^{(2)}$ should be $dx_i^{(1)*}dx_i^{(2)*}$
- p. 17, 2nd line of 2nd paragraph: by an finite should be by a finite
- p. 28, 2nd line of equation following “By Gauss’s theorem,”: δ_{ij} should be δ_{lj}
- p. 32, unnumbered equation above (1.3.9):
 $\sin 2(\theta - \theta_1) = \sin 2\theta \cos 2\theta_1 - \sin 2\theta \cos 2\theta_1$, should be $\sin 2(\theta - \theta_1) = \sin 2\theta \cos 2\theta_1 - \sin 2\theta_1 \cos 2\theta$
line above Equation (1.3.9): Equations (1.3.7)–(1.3.8) should be Equations (1.3.6)–(1.3.7)
- p. 28, 2nd line: $T = \partial\hat{\kappa}/\partial\eta$ should be $T = -\partial\hat{\kappa}/\partial\eta$
4th line: $\kappa - T\eta$ should be $\kappa + T\eta$
- p. 33, line below 2nd unnumbered equation, equation (2) in text: $\sigma_{12,2} + \sigma_{22,2}$ should be $\sigma_{12,1} + \sigma_{22,2}$
- p. 40, last line: amd should be and
- p. 41, last line: ν_i should be v_i
- p. 52, 3rd line above *Discretized Elastic Body*: Π_c should be Π^c
- p. 59, Fig. 1.5.1(b): ε_σ should be E_0
Fig. 1.5.1(e): E_0 should be E_∞

p. 60, 2nd equation from bottom: J_2 should be J_1

p. 67, Exercise 1(c): Figure 1.5.1(c) should be Figure 1.5.1(a)

p. 80, Fig. 2.1.5: ε_c should be ε^c

p. 82, Exercise 8: $r = 0$ should be $n = 0$

p. 106, l. 1: obey by should be obey

p. 121, last unnumbered equation (following “Since”): $\frac{\partial f}{\partial \sigma_{ij}}$ should be $\frac{\partial f}{\partial \sigma_{kl}}$

p. 128, 2nd line following *Tresca Criterion: Associated Flow Rule*: (3.2.5) should be (3.2.7)

, unnumbered equation following Eq. (3.3.3): $\frac{1}{2}[1 + H(x)]$ should be $2H(x) - 1$

p. 143, first equation and unnumbered equation following (3.4.3): C_{ijkl} should be C_{ijkl}^{-1}

p. 145, first unnumbered equation:

$$\left(\dot{\varepsilon}_{kl} - \frac{1}{L} \langle C_{klmn} \frac{\partial f}{\partial \sigma_{kl}} \dot{\varepsilon}_{mn} \rangle \frac{\partial f}{\partial \sigma_{ij}} \right) \text{ should be } \left(\dot{\varepsilon}_{kl} - \frac{1}{L} \langle C_{pqmn} \frac{\partial f}{\partial \sigma_{pq}} \dot{\varepsilon}_{mn} \rangle \frac{\partial f}{\partial \sigma_{kl}} \right)$$

p. 151, subsection title: 3.5.1. Standard of should be 3.5.1. Standard

p. 157, middle of page: 3. to any σ should be 3. to any $\boldsymbol{\sigma}$

p. 159, 2nd unnumbered equation:

$$\sigma_1 = -\frac{M}{10} Ah \stackrel{\text{def}}{=} \sigma_1^e, \quad \sigma_2 = -\frac{3M}{10} Ah \stackrel{\text{def}}{=} \sigma_2^e. \text{ should be } \sigma_1 = -\frac{M}{10Ah} \stackrel{\text{def}}{=} \sigma_1^e, \quad \sigma_2 = -\frac{3M}{10Ah} \stackrel{\text{def}}{=} \sigma_2^e.$$

p. 162, l.9: ρ^* should be $\boldsymbol{\rho}^*$

p. 176, l. 6 and 9: St. Venant should be Saint-Venant

p. 179, 2nd line above *Rectangular shaft*: height should be side

p. 187, last line: $2\pi ka^3$ should be $2\pi kc^3$

p. 196, last equation:

$$\frac{b_0}{b} = 1 - \frac{A}{b^3} \text{ should be } \frac{b_0}{b} = \left[1 - \frac{3A}{b^3} \right]^{1/3} \doteq 1 - \frac{A}{b^3}$$

p. 200, unnumbered equation following “upon integrating,” should be $\sigma_r + 2\sigma_\theta = 3A - 2\frac{E\alpha}{1-\nu}T$.

unnumbered equation following “leads to” should be $\frac{d}{dr}(r^3\sigma_r) = 3Ar^2 - 2\frac{E\alpha}{1-\nu}r^2T$,

p. 202, 4th line of paragraph under *Thermoelastic Stresses*: (4.33) should be $\sigma_\theta - \sigma_r = \sigma_Y$

p. 207, line following Eq. (4.3.27): (4.3.23) should be (4.3.27)

3rd line from bottom: (4.3.25) should be (4.3.27)

p. 208, 1st equation following *Limit of Validity*: $\frac{2\nu}{(b/a)^2 - 1}$ should be $\frac{2\nu k}{(b/a)^2 - 1}$

2nd and 3rd equations following *Limit of Validity*: $+\frac{\alpha}{(b/a)^2 - 1}$ should be $-\frac{\alpha}{(b/a)^2 - 1}$

p. 209, l. 9 from bottom: (4.3.19) should be (4.3.18)

p. 211: Equation (4.3.32) and unnumbered equation above it: $-3s_r$ should be $-s_r$

p. 212, first two unnumbered equations: $\dot{\lambda}$ should be $2G\dot{\lambda}$

p. 214, 1st line of 3rd paragraph: given be should be given by

p. 218, 2nd line following *Elastic Bending*: (4.4.1) should be (4.4.2)

Equation (4.4.5): $M_y = EI_y \kappa \sin \alpha$ should be $M_y = -EI_y \kappa \sin \alpha$

p. 229, 1st line of unnumbered equation following Eq. (4.4.16): \int_{ξ}^L should be \int_{ξ}^L

p. 251, 3rd line following Eq. (4.5.29): \mathbf{K}_t recom- should be \mathbf{K}_t is recom-

p. 259, title: "Exact Solutions" should be "Exact" Solutions

p. 260, end of 2nd paragraph from bottom: [see Figure 5.1.3, which is discussed later]. should be
(see Figure 5.1.4, which is discussed later).

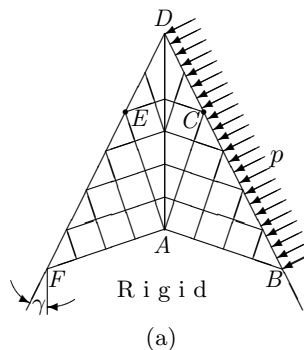
p. 262, Figure 5.1.1: Find should be First

p. 264, l.1: (3.3.4) should be (3.3.6)

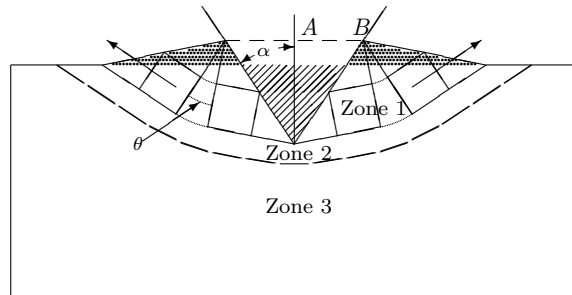
4th line following 2nd unnumbered equation: $\lambda = -1$ should be $\lambda = -2r \sec \phi$

p. 268, unnumbered equation following (5.1.7): $v_{2,2} dx_2$ should be $v_{1,2} dx_2$

p. 271, Figure 5.1.6(a) should be



p. 275, Figure 5.1.9 should be



p. 282, last line of paragraph following *Displacement Assumptions and Virtual Work*: $\bar{u}_{\beta,\beta}$ should be $\bar{u}_{\beta,\alpha}$

p. 298, 4th line of 3rd paragraph: is discussed should be are discussed

p. 302, l. 2: notions should be reasoning

l. 4: addition should be additional

p. 305, right-hand side of first equation: $\frac{\pi^2 E}{(L_e/r)^2}$ should be $\frac{\pi^2 E/\sigma_Y}{(L_e/r)^2}$

p. 313, right-hand side of first equation: $\left(\frac{h}{R}\right)$ should be $\left(\frac{h}{R}\right)^3$

p. 326, l. 7: **6.1.2.** should be **6.1.3.**

p. 331, 1st equation (unnumbered): $\sin \phi (\sigma_x + \sigma_y)$ should be $\sin \phi (\sigma_x + \sigma_y)$

p. 336, 2nd line following *Introduction*: 4.5.1 should be 4.4.1

7th line following *Introduction*: (4.5.7) should be (4.4.7)

8th line following *Introduction*: 4.5.1 should be 4.4.1

14th line following *Introduction*: x-axis should be y-axis

16th line following *Introduction*: (4.5.2) should be (4.4.2)

p. 338, Equation (6.2.4): $2 \int_{y=y_0}^{y=c_2}$ should be $2\sigma_Y \int_{y=y_0}^{y=c_2}$

2nd line from bottom: (4.5.11) should be (4.4.11)

p. 342, 5th line following *Lower Bound*: $|\sigma = \alpha |\sigma_Y|$ should be $|\sigma| = \alpha \sigma_Y$

6th line following *Lower Bound*: $|\tau|$ should be τ

p. 349, Equation (6.2.13): $\sigma = \frac{\nu\sigma_Y y^2}{\sqrt{1 + \nu^2 y^2}}$ should be $\sigma = -\frac{\nu\sigma_Y y}{\sqrt{1 + \nu^2 y^2}}$

p. 351, Fig. 6.2.8: (6.2.13) should be (6.2.12)

p. 360, second formula from bottom: $(1 - \alpha)$ should be $(1 - \alpha)$

p. 382, 6th line from bottom: radius c should be radius a

p. 393, 4th line of 3rd paragraph: which as been should be which has been

p. 398, 11th line following 3rd equation: Symonds 1956] should be Symonds [1956]

pp. 410-411: in all equations, $[\]$ should be $[\]$

p. 413, last equation: $\int_{\varepsilon_0}^{\bar{\varepsilon}}$ should be $\int_{\varepsilon_0}^{\bar{\varepsilon}}$

p. 433, Equation (7.3.5): $[\dot{\mathbf{v}}]$ should be $[\dot{\mathbf{v}}]$

p. 450, 6th line following **Thermoelasticity**: only the should be only on the

p. 463, Exercise 2: (8.2.5) should be (8.2.6)

Exercise 6: (8.2.11) should be (8.2.16), (8.2.10) should be (8.2.15)

Exercise 7: (8.2.13) should be (8.2.18)

Exercise 8: (8.2.18) should be (8.2.23)