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Strength Analysis in Geomechanics

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Errata

Unfortunately, the pages listed below contain errors and should read as follows:

In chapter 1 on page 8, between Equations (1.6) and (1.7) Lines 1, 2:

Value

$$a/(1+e_o)$$

In chapter 2 on page 33, Equation (2.13):

$$T_\varepsilon = \begin{pmatrix} \varepsilon_x & \gamma_{xy}/2 & \gamma_{xz}/2 \\ \gamma_{xy}/2 & \varepsilon_y & \gamma_{yz}/2 \\ \gamma_{xz}/2 & \gamma_{yz}/2 & \varepsilon_z \end{pmatrix} \tag{2.13}$$

In chapter 3 on page 70, Equation (3.105):

$$\tau_* = 4\sqrt{\gamma_s G/\pi(\kappa+1)l}. \tag{3.105}$$

In chapter 3 on page 75, Equation (3.125):

$$\max \tau_e = q(0.5(1-2\nu) + (1+\nu)\sqrt{2(1+\nu)}/9)/2 \tag{3.125}$$

In chapter 4 on page 95, in the second line before Equation (4.22):

$$n = 1.07$$

In chapter 5 on page 155, Equation (5.126):

$$\max \tau_e = (P/\pi - p * b^2) \max g^{\mu}(\chi)/l(bg^{\mu}(\lambda) + J_5(\lambda))(2J + l/a) \qquad (5.126)$$

In Appendix M on page 220, Equation (M.7):

$$P^* = P_1(\tan(\alpha + \varphi))/\tan(\alpha - \varphi) \qquad (M.7)$$

In Appendix N on page 223, Line 1, 2:

Since polymers and rubbers are often used as shells and membranes (see Sects. 6.2.4, 6.2.5) it is necessary to study gas penetration through them. Here-

In Appendix N on page 224, Equation (N.7), Line 1:

$$C(x,t) = C_1 + (C_2 - C_1)x/h + (2/\pi) \sum_{n=1}^{\infty} ((C_2 \cos \pi n - C_1)/n) \sin(n\pi x/h)$$