ERRATA

Continuum Mechanics: Elasticity, Plasticity, Viscoelasticity
by Ellis Harold Dill

Page	Correction
7	After (1.4.6), replace X by **X**.
10	Equation (1.4.29) should read $d\mathbf{A} = (\mathbf{F} \cdot d_1\mathbf{X}) \times (\mathbf{F} \cdot d_2\mathbf{X})$.
14	Equation (1.6.9) should have $v^2\vert_2 = \frac{\partial v^2}{\partial x^2} + \frac{v^1}{x^1}$.
15	Equation (1.6.10) for a^2 the term $\frac{\partial v^2}{\partial x^1} v^2$ should be $\frac{\partial v^2}{\partial x^2} v^2$.
19	In Eq. (1.8.5), replace *S* by *A*.
44	Eq. (1.14.59) should not have a minus sign.
45	Sentence should read "Consider the following deformation **of** a square rod."
45	Last line should read Figure 1.15.1.
46	Figure should be labeled 1.15.1.
46	Problem 5 should read: "Principal stretches."
47	Problem 8 should refer to (1.8.12).
56	In (2.3.3) and (2.3.6), φ_3 should be φ_2.
56	In (2.3.7), subscripts should be C and not *E*.
57	Line before (2.3.10), reference should be to (2.3.8).
57	In (2.3.14), φ_3 should be φ_2.
58	In (2.3.16), φ_3 should be φ_2.
67	Replace Holgar by Hoger.
68	Equation 2.5.22 should read $\mathrm{S_a} : \dot{\mathbf{E}}_\mathrm{a} = \ldots$
68	Equation 2.5.23 should read $\mathrm{S_0} : \dot{\mathbf{E}}_0 = \ldots$
72	In equation 2.6.17, $C_{1133} = C_{1122}$. (Case 5 is the same as case 6.)
73	Replace K by $\mathfrak{K}$ in (2.7.2) and (2.7.3).
91	Equation 2.11.37 missing final bracket: $\ldots III_\varepsilon)$
91	Line after (2.11.38) should read "Note that this $\boldsymbol{\varepsilon}$…"
92	Line before (2.11.44) should read $J = (1+\varepsilon_1)(3-{\varepsilon_1}^2)/9$
97	Equation 2.11.68 should read $T_k = ...- 2a_2 J^{-1/3}(\alpha_k^{-2} - \frac{1}{3} I_2 I_3^{-1}) + ...$
97	Equation 2.11.69, change $\overline{I}_3$ to $\overline{I}_2$.
100	Eq. (2.11.83) should read $\mathbf{e} = \mathbf{R} \cdot \sum_{i=1}^{3} ln(\alpha_i) \mathbf{N}_i \mathbf{N}_i \cdot \mathbf{R}^\mathrm{T}$.
166	7th line after Eq. 4.3.7 should read $\vec{c} = (\vec{e}_1 + \vec{e}_2 + \vec{e}_3)/\sqrt{3}$.
167	fourth line before (4.3.8) should have $\sigma_1^2 - \sigma_1\sigma_2 + \sigma_2^2 = Y^2$.

173 Equation (4.5.2) should read $\dot{\bar{\varepsilon}}^{\mathrm{P}} = +\sqrt{\frac{2}{3}\dot{\boldsymbol{\varepsilon}}^{\mathrm{P}} : \dot{\boldsymbol{\varepsilon}}^{\mathrm{P}}}$

173 Equation (4.5.3) should read $\dot{\bar{\varepsilon}}^{\mathrm{P}} = ...$

174 Aftyer Eq. 4.5.11, η should be bold face.

177 Equation (4.6.4), replace $\boldsymbol{\tau}$ by $\dot{\boldsymbol{\tau}}$.

179 The line following (4.6.16) should have $\dot{\varepsilon}_{11}^{P} < 0$.

180 Equation $(4.6.22)_2$ should read $\varepsilon_{11}^{P} = ...$

186 Eq. 4.7.22 should read $\dot{\boldsymbol{\beta}} = \frac{2}{3} c \dot{\boldsymbol{\varepsilon}}^{P} - \gamma \boldsymbol{\beta} \dot{\bar{\varepsilon}}^{P}$

186 Eq. 4.7.23: replace *H* by *h*

221 Fig. 5.1.7: replace μ_3 and η_3 by μ_N and η_N

222 Eq (5.1.53) should read $\bar{\sigma}(t) = \int_0^t \kappa(t-\tau)\dot{\bar{\varepsilon}}(\tau) d\tau.$

249 Figure 6..5.3 axis should read Log ΔK.

258 Delete extra "system is" in the line following (7.1.35).

258 Delete extra "can be" in the second line following (7.1.38).

277 Equation (7.3.28) should read $a_{ij} = A_{ik} A_{jk}$.

290 Second line after (7.4.23) should read $\mathbf{b}_k \mathbf{a}^k$.

299 Eq. 7.4.76 missing subscript: ….$(\det \mathbf{T})\mathbf{A}_0$.

303 Equation (7.4.101) should read $\mathbf{E}_2 = \mathbf{1} - \mathbf{E}_1$.

304 After (7.4.105), *spectral* should be in italics.

311 Footnote 2: fymmetric should read symmetric.

312 Sentence should read "…. choice of basis depends **on** the…"

313 First sentence should read "The determinant of the coefficient matrix is"

313 Second equation should be

$$\begin{vmatrix} 2 & 2 & 2 \\ \alpha_1 + \alpha_2 & \alpha_2 + \alpha_3 & \alpha_3 + \alpha_1 \\ \alpha_1^2 + \alpha_2^2 & \alpha_2^2 + \alpha_3^2 & \alpha_3^2 + \alpha_1^2 \end{vmatrix} = 2 \begin{vmatrix} 1 & 1 & 1 \\ \alpha_1 & \alpha_2 & \alpha_3 \\ \alpha_1^2 & \alpha_2^2 & \alpha_3^2 \end{vmatrix} \neq 0$$

313 Case 3, line 2, A should be **A**.

330 Problem 11 should read Solve (7.3.82)…

330 Problem 17 should read $((\mathbf{T} \cdot \mathbf{e}_1) \times \mathbf{e}_2) \cdot \mathbf{e}_3$.

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