ERRATA
as of 30 Nov 2009

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 $v^2\vert_2 = \dfrac{\partial v^2}{\partial x^2} + \dfrac{v^1}{x^1}$.
15	Equation (1.6.10) for a^2 the term $\dfrac{\partial v^2}{\partial x^1}v^2$ should be $\dfrac{\partial v^2}{\partial x^2}v^2$.
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 $\mathrm{S_0} : \dot{\mathbf{E}}_0 = \ldots$
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 $J = (1+\varepsilon_1)(3-{\varepsilon_1}^2)/9$
100	Eq. (2.11.83) should read $\mathbf{e} = \mathbf{R}\cdot\sum_{i=1}^{3} ln(\alpha_i)\mathbf{N}_i\,\mathbf{N}_i\cdot\mathbf{R}^\mathrm{T}$.
167	fourth line before *4.3.8) should have $\sigma_1^2 - \sigma_1\sigma_2 + \sigma_2^2 = Y^2$.
173	Equation (4.5.3) should read $\dot{\bar{\varepsilon}}^\mathrm{P} = \ldots$
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 $\varepsilon_{11}^P = \ldots$

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

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