Errata Sheet
(December 2010)

Fundamentals of Radiation Materials Science: Metals and Alloys, 1st Edition

Page	Line	Description
Chapter 1		
7	3 from bottom	change "$\overset{\vee}{T}=0$" to "$\hat{T}=\gamma E_i$".
10	Figure 1.5a	variable on ordinate should be "σ_s", variable on abscissa should be "ϕ".
	Figure 1.5b	variable on ordinate should be "σ_s", units or ordinate should be "barns/steradian", variable on abscissa should be "ϕ".
11	Eq. for Q	As written, the equation, the left hand side should be "-Q"
13	Eq. after (1.26)	power on "$(E_i E_m^{'})$" term should be "½".
16	Fig. 1.7	Change "T" to "$\overline{T_\ell}$".
18	Eq. (1.45)	Change to $V(r)=k_e\dfrac{\varepsilon^2}{r}$
18	line below Eq. (1.45)	change to "where $k_e=\dfrac{1}{4\pi\varepsilon_0}$ is the Columb constant, ε_0 is the electric constant, ε is a single unit electronic charge and ε^2 = 1.44 eV-nm".
19	Eq. (1.46)	second inequality should be "$r \le r_0$".
19	5 lines from bottom of page	change "van de Waals" to "van der Waals".
21	first line	remove "a" before "little".
21	Eq. after (1.52)	limit should be "$r \to 0$".
24	lines 9 and 10 after Eq. (1.60)	change "ϕ" to "V".
	7th from bottom	insert space before "M_2".
25	Table 1.3	
	Screened Coulomb	change to "Light ions $r < a_0$".
	Inverse square	change "E_R" to "E_r".
26	Eq. (1.61)	change "M^l" to "M_l".
27	Eq. above Eq. (1.64)	"v_ℓ" on LHS of first Eq. should be "v_1".
28	line above Eq. (1.69)	insert ", ρ,: after "approach".
28	Eq. (1.69)	replace "r" with "ρ" in in two places in Eq. (1.69).
32	expression below (1.82)	After first equality in line, insert "(using the absolute value of the derivative to maintain $\frac{db}{d\phi}$ as a positive value)".
34	Eq. (1.92)	move "½" to inside of square bracket.
35	Eq. (1.95)	change argument of first "$\sin^{-1}$" term to "$\dfrac{b_0}{2b^2c}$".
36	Eq. (1.102)	change "$E_i\gamma$" to "γE_i".
37	Eq. (1.108) & (1.109)	change "ε^2" to "e^2" in all three instances of use.

39	line 4	replace "for the" with "for the same value of E_i and for".
40	5th line from bottom	change "MeV" to "MV".
45	pph 3, last line	change "*dE/dx=NS(E)*" to *"-dE/dx=NS(E)*".
45	2 lines above Eq. (1.129)	replace "$\frac{1}{N}\sigma$" with "$\frac{1}{N\sigma}$".
49	Eq. (1.145)	change "$\sigma(E,T)$" to "$\sigma(E_i,T)$".
50	Eq. (1.146)	change "$\sigma(E,T)$" to "$\sigma(E_i,T)$".
52	line 2	indent paragraph beginning with "Two approximations….".
53	second line above Eq. (1.160)	change to "using a Thomas-Fermi screening function, and expanding…"
53	line below Eq. (1.160)	change to "where $f(r/a) = a/r$.
55	line below Eq. (1.169)	change "cross section" to "power".
55	Eq. (1.170)	replace "$S_e(E)$" with "$\left(\frac{dE}{dx}\right)_e$".
57	Third line from end of section 1.3.1	"k'_{Si}" should have units of "$eV^{1/2}$ cm^2".
	Second line from end of section 1.3.1	change "stopping powers" to "energy loss rates"
57	Eq. (1.182)	last equality should be *"-$kE^{1/2}$"*.
58	Table 1.7	change "stopping powers" to "energy loss rates" in title and sub-headings.
	Low E general Expression	insert "*N*" in numerator
	Thomas-Fermi Screening Expression for K	insert "*N*" in numerator
	In T-F screening	change units to "$eV\,cm^2$".
58	Eq. (1.184)	replace "$S_T(E)$" with "$\left(\frac{dE}{dx}\right)_T$".
64	Example 1.3 lines 5 and 7	change equation references to "Eq. (1.206)" and "Eq (1.207)".
66	Nomenclature	k_e Coulomb constant
67	Nomenclature	ε unit electronic charge
		ε_0 electric constant
70	Problem 1.15 b)	change to "$S_e(E) = k' E^{1/2}$" and "k' = 2 x 10^{-16} $eV^{1/2}$ cm^2."

Chapter 2

75	point #2	change to "Eq. (2.3)."
76	line below Eq. (2.8)	change "dε/dT" to "dε /T".
76	see change of variables issue in David's note	
77	Fig. 2.3	redraw curve
78	first line	insert "if E_c is ignored," after "Note that".
78	2nd and 4th line from bottom of second to last paragraph	change "E_c" to "E_s".
91	5th line from bottom	insert "direction" after "crystallographic".

93	check on Eq. (2.65)	
94	line 7	critical focusing energy should be written "E_{fc}^{hkl}".
94	line below Eq. (2.71)	inequality should read "$E \geq E_{fc}$".
95	line above Eq. (2.77)	change to "Eq. (2.76)".
95	line above Eq. (2.79)	change to "$E_{fc}/2A<<1$".
96	line 8 under section heading "**Replacement Collisions**"	change "Atoms is…" to "Atoms in…"
100	Table 2.3a title	"Equations for E_{fc}^{hkl} in the fcc and bcc lattices considering assisted focusing (after [18])"
100	Table 2.3a first entry in "Face-centered cubic" column	$\frac{A(D^{110})^2}{2B^2}\exp\left(-\frac{D^{110}}{4B}\right)^{\uparrow}$
100	Table 2.3a third entry in "Face-centered cubic" column	$\left(\frac{6}{19}\right)^{1/2}\frac{A(D^{110})^2}{B^2}\exp\left(-\frac{D^{110}}{2B}\left(\frac{19}{12}\right)^{1/2}\right)^{\uparrow}$
101	Eq. (2.92)	equation should read "$V_{ch}(r) = kr^2$".
107	Eq. (2.115)	insert "σ_γ" after second equality.
109	Eq. at bottom	limits of integration should be: "$\overset{\vee}{E}$" for lower limit and "$\hat{E}$" for upper limit.
110	Eq. (2.122)	first and third terms in square brackets should be "$2E^2_d$".
111	line below Eq. (2.123)	change to "Eq. (2.1)".
117	3 lines above Eq. (2.134)	change "ions/cm^2" to "ions/cm^2-s".
118	Last equality in Eq. (2.138)	unit should be $\frac{\text{displacements}}{\text{n/cm}^2}$.
120	16th line from bottom	"ε" should be "ε_T".
121	problem 2.3 line 3	units on flux are "n/cm^{2}s".
122	problem 2.12 line 4	change to "k' = …"
123	problem 2.14 line 3	"Kinchin" is misspelled.
123	problem 2.17	remove the last two lines of the problem, starting with "Use…".

Chapter 3

126	line 4 below Eq. (3.5)	change content in parentheses to "($\lambda \sim 0.2$ nm)"
129	last line and p 130 first line to the period.	change to "of greatest importance, rather it is the number of recoils weighted by the damage energy produced in each recoil that is most important."
130	Eq. (3.13)	Lower integration limit should be "E_d".
132	Figure 3.7	change "ε" to "ξ" in four places in figure.
132	first line below Eq. (3.20)	"Boltzmann's" is misspelled.
133	2nd line	change "cascade" to "damage".
133	Eq. (3.23)	term in brackets is raised to the 2/3 power.
134	line 12 from top of page	change "MARLOW" to "MARLOWE"

149	line 10 from top of page	"ν_{NRT}" should be "ν_{NRT}"
150	line 1 from top of page	change "Fe-Cu" to "Fe-Cr".
152	Nomenclature	Add "R^2 variance in temperature profile, Eq. (1.32)".
		Remove "Θ cascade energy density".

Chapter 4

156	Figure 4.2 caption	label left drawing "a" and right drawing "b".
156	Figure 4.4 caption	label left drawing "a" and right drawing "b".
156	Figure 4.6 caption	label left drawing "a" and right drawing "b".
160	Table 4.1	remove asterisk in definition equilibrium vacancy concentration. Add as footnote to table "*estimated by assuming S_i^f=8k".
164	first line	change "at finite a temperature" to "at a finite temperature".
164	Eq. (4.7)	insert "k" in front of the term in brackets.
165	Eq. (4.14)	denominator in last term on the right should be "kT".
166	Example 4.1 a)	change equation references to "Eqs. (4.15) and (4.16)".
167	Eq. (4.20)	replace γ with σ in second term.
167	Eq (4.20)	remove "2" outside the brackets in the second line of the Eq.
170	line 7	change to "species".
171	pph 2, line 1	change to "mechanisms".
173	Eq. (4.30)	remove period in front of "λ_3".
175	Eq. (4.46)	change 1/6 to $\frac{1}{6}$.
175	line above Eq. (4.47)	change 1/6 to $\frac{1}{6}$.
175	two lines above Eq. (4.49)	remove "," after "cases".
176	last line	change "N_m" to "n_m".
177	eqn for N_v in section 2	insert negative sign into last term: "$\exp\left(\frac{-E_f^v}{kT}\right)$".
177	Eq. before Eq. (4.55)	Replace "N_V" with "N_v".
177	Eq. (4.55)	in first term after equality, change "S_v^m" to "S_m^v".
178	Eq. (4.57)	remove "+" sign in second term.
178	Eq. (4.61)	remove "and".
179	first line in example box	change "3 nm" to "0.3 nm".
179	Table 4.2 second from last line, column D	change entry to "$1/6a^2\omega$".
188	Nomenclature	Add "κ_T thermal conductivity".
189	problem 4.7	line 1: Change "diffusivity of" to "diffusion coefficients for". line 4: Change "diffusivity of" to "diffusion coefficients for". last line: "Take γ=1".

Chapter 5

202	third line above Eq. (5.37)	change "α" to "$\propto$" in two places.
203	11 lines from bottom of page	change "The thin solid lines are the interstitial and vacancy concentrations and the thick solid line is the their sum as calculated from Eq. (5.35)" to "The thin solid lines are the

		interstitial and vacancy components and the thick solid line is their sum as calculated from Eq. (5.39)"
204	Fig.5.6 caption	"heavy lines" – need to redraw curve.
205	Fig. 5.7	in line 2, the value for ρ_d should be "10^{14}".
205	Eq. (5.42)	in denominator, change "K_{iv}" to "K_{is}".
206	first line above Eq. (5.46)	last term is $K'_{vs}=4\pi r_{vs}$.
209	Eq. (5.52)	remove subscript from "ω".
214	line above Eq. (5.76)	change to "Using Eq. (5.74) gives:"
215	line below Eq. (5.79)	replace "Eq. (5.56)" with "Eq. (5.77)".
215	Eq. (5.83)	Change term after the equality to "0".
215	Eq. (5.83)	value on RHS should be changed from "1" to "0".
218	first line below Eq. (5.101)	change "divided" to "multiplied".
218	line above Eq. (5.102)	remove "a/cm^2".
218	Eq. (5.102)	replace "z_d/D" with "z_d".
220	Eq. (5.115)	Insert "D_v" to LHS of Eq. and "D_i" to RHS of Eq.
221	Table 5.2	Rate constants for "v,i + grain boundary, Diffusional control" should be: $K_{vgb} = 4\pi D_v d \quad K_{igb} = 4\pi D_i d$ $K_{vgb} = \pi k D_v d^2 \quad K_{igb} = \pi k D_i d^2$
225	problem 5.9	in definition for "z_d", change "divided" to "multiplied". add "$\rho_d = 10^{-10}$ cm^{-2}" below the definition of "r_{id}".

Chapter 6

235	Eq. (6.7)	Change "N_v" to "N_A".
235	3 lines from bottom of page	add period after "Eq. 6.6)".
238	line 6 in Example 6.1	Change "E_m^{Bv}" to "E_m^{Bi}".
240	Eq in Example 6.2	The middle term in the exponent should be "E_m^{Ai}".
246	line after Eq. (6.29)	Change "Eq. (6.25) to Eq. (6.28)".
248	Eq. (6.39)	In Eq. for JC, change the second term to the right of the equality to "$d_{Cv}\Omega C_C \Delta C_v$".
251	2 lines above Eq. (6.44)	change "exchnge" to "exchange".
252	Eq. (7.47c)	change third term in square brackets to "$\frac{C_{Fe}}{2} E_{NiNi}$". change last term in square brackets to "$C_v E_{Ni-v}$".
254	Fig. 12 caption	Reference should b "(after [12])".
255	Eq. (6.57)	change "K_v" in last term to "K_{vs}".
255	Eq. (6.58)	change "K_i" in last term to "K_{is}".
260	lines 3 and 4	Change "…determining in the…" to "…in determining the…".

Chapter 7

269	Figure 7.4	change "pure screw character at point A" to "pure edge character at point A" and "pure edge character at point B" to "pure screw character at point B".
270	Eq. (7.2)	Should use proportional symbol "$\propto$".
271	Eq. (7.4)	Should use proportional symbol "$\propto$".

273	line eleven from top	Change “plan” to “plane”.
278	Figure 7.20	Arrow below “θ” in figure should go in opposite direction.
279	Eq. (7.15)	Last equality for σ_{xx}, σ_{yy}, and σ_{xy} should have a “2” in the denominator. First equality for σ_{xx} should have a “-“ sign, and the last equality should not have a “2”.
283	Eq. (7.29)	insert “2” before the term on the LHS of the Eq.
283	line 8 below Eq. (7.32b)	Change “Eq. (7.32b)” to “Eq. (7.32b)”.
283	4 lines above sec. 7.1.6	change “Frank-Reed” to “Frank-Read”.
294	section 7.19, 6th line from bottom	change “job” to “jog”.
296	second pph, line 5	change “line” to “lie”.
304	5th line from bottom	remove “in” after “into”.
308	line above Eq. (7.60)	add “,n_v,” after “number of vacancies”.
308-309		change “n” to “n_v” in: line below Eq. (7.61) Eq. (7.63) Eq. (7.64)
308	Eq. (7.60)	change “E_S” to “E_V”.
328	Fig. 7.59a	change “3600” to “600” in abscissa label.
329	line below Eq. (7.137)	change “ρ_n” to “ρ_N”.

Chapter 8

345	line 5 after Eq. (8.3)	Replace “removing” with “placing” and replace “from” with “in”.
346	line above Eq. (8.10)	remove “and”.
347	line below Eq. (8.16)	move “ΔG_n^0” up to the preceding line just after “for”.
347	Fig. 8.2	label on bottom curve should be “$\propto$ -n”.
349	third line below Eq. (8.21)	change “$\beta_v(n+1)$” to “$\beta_i(n+1)$” and add “vacancy” before “loss”.
350	Fig. 8.4 caption	Remove “of” in line 2.
350	Eq. (8.25)	“$\beta_i(n)$” in denominator of second term in middle equality should be “$\beta_i(n)$”.
350	line below Eq. (8.26)	change “$\beta_i(n)$” to “$\beta_i(n)$”.
352	first line below Eq. (8.36)	change “were” to “where”.
352	first line	change “Fig. 8.2” to “Fig. 8.3”.
353	Eq. (8.40)	replace “36” with “32”.
356	line 5	change “as” to “an” to read “….just an extension…”
316	Fig. 8.11	replace “β_i β_v” in figure with “β_i/β_v’.
367	line below Eq. (8.779)	change “Table 5.1” to “Table 5.2”.
367	Eq. for C_0, above Eq. (8.80)	insert minus sign in exponent for “H_f”.
368	Eq. (8.87)	change all “d” sub- and super-scripts to “N”.
368	Eq. (8.88)	change all “d” sub- and super-scripts to “N”.
369	line 2 below Eq. (8.91)	replace “Eqs. (8.91) and (8.92)” with “Eqs. (8.90) and (8.91)”.
371	Eq. (8.108) line 3 of Eq.	in last term , change “D_vC_v” to “D_iC_i”.

373	Eq. (8.115)	Correct Eqs. are: $C_v = \frac{-K_{is}C_s}{2K_{iv}} + \left[\frac{K_0 K_{is}}{K_{iv}K_{vs}} + \frac{K_{is}^2 C_s^2}{4K_{iv}}\right]^{1/2}$ $C_i = \frac{-K_{vs}C_s}{2K_{iv}} + \left[\frac{K_0 K_{vs}}{K_{iv}K_{is}} + \frac{K_{vs}^2 C_s^2}{4K_{iv}}\right]^{1/2}$,
373	line below Eq. (8.115)	change "Table 5.1" to "Table 5.2".
373	Eq. (8.116)	Correct Eqs. are: $C_v = \frac{-k_i^2 D_i}{2K_{iv}} + \left[\frac{K_0 k_i^2 D_i}{K_{iv}k_v^2 D_v} + \frac{(k_i^2)^2 D_i^2}{4K_{iv}}\right]^{1/2}$ $C_i = \frac{-k_v^2 D_v}{2K_{iv}} + \left[\frac{K_0 k_v^2 D_v}{K_{iv}k_i^2 D_i} + \frac{(k_v^2)^2 D_v^2}{4K_{iv}}\right]^{1/2}$.
374	line below Eq. (8.126)	change "Eq. (5.57)" to "Eq. (5.58)".
374	Eq. (8.127)	in denominator, change "D_i" to "a^2". in denominator, change "ρ_D" to "ρ_d".
375	Eq. (8.130)	in denominator in first term after equality, change "p_d" to "ρ_d".
376	line above Eq (8.134)	insert "all but the first" after "in".
376	Eq. (8.135)	change "A" to "Θ" in very last term.
377	line 13 in sec. 8.3.1	change "$F'(\eta)$ to $F(\eta)$".
381	4th line from bottom	change RHS of inequality from "$\frac{z_v}{z_i}$" to "$\frac{z_i}{z_v}$".
382	Eq. (8.148)	Change "ρ_v" to "ρ_V".
384	pph 2, line 3	change "Q<1" to "Q>1".
384	pph 2, line 10	change "Q>1" to "Q<1".
384	Fig. 8.21	label on ordinate should be "$Q/(1+Q)^2$". Value should be "0.25".
385	Fig. 8.22	units on label on ordinate should be "(%/dpa)".
393	line 2	change "terms" to "term".
394	line below Eq. (8.169)	replace "Eq. (8.165)" with "Eq. (8.168)".
412	Fig. 8.48	see revision to legend.
417	line 2 above Eq. (8.204)	change "substituting in from Eq. (8.194) for p gives" to "substituting for p from Eq. (8.194) to give".
419	line 2 after Eq. (8.211)	add a space after "C_v".
423	header at top of page	change to read "8.5 Bubble Growth".
423	line 2 below Eq. (8.228)	change to "the thermal neutron cross-sectns for the reactions in Eq. (8.228) are 4.6b and 12.3b, respectively."
426	Nomenclature	Add "z_{iv} combinatorial factor for vacancy-interstitial recombination". Add "Σ_s macroscopic neutron scattering cross section" Add "γ_{SFE} stacking fault energy"
427	problem 8.4	change "$\dot{R}/\dot{R}_0$" to "$\dot{R}/\dot{R}_0$". change "ν=100 displacements/neutron" to "# displacements/neutron = 100". change "Z_i" and "Z_v" to "z_i" and "z_v". in Eq. for "D_v", change "a_0^2" to "a^2". Eq. for "C_v=" should read "C_v^0=".
428	problem 8.5	change "C_r" to "C_v".
429	problem 8.7	change "$\sigma/\gamma\|_{Ni} < \sigma/\gamma\|_{Fe}$" to "$\gamma/\gamma_{SFE}\|_{NI} < \gamma/\gamma_{SFE}\|_{Fe}$".
	problem 8.12	change "=2" to "=$\sqrt{2}$".
446	line below Eq. (9.37)	add "," after "K_w".

Chapter 9

438	Eq. (9.9)	remove parenthesis ")" to the right of the r_p^3 term in denominator of the first term after the equality sign.
438	Eq. (9.10)	change "Ce" to " C_e".
440	after Eq. (9.16)	insert "where "C_0 is the initial solute concentration" before "and the maximum…"
440	Eq. (9.17)	the term "$(L\text{-}r_p^2)$" in the denominator should be "$(L\text{-}r_p)$".
442	Eq. (9.25)	Change "D_v" to "D_i" and "r_v" to "r_{iv}".
443	Eq. (9.27)	Change "D_v" to "D_i" and "r_v" to "r_{iv}".
443	two lines below Eq. (9.27)	after "$=K_0/N$" add, ",where N is the atom number density, and".
443	line above Eq. (9.28)	Change "between Eqs. (9.21 and (9.26)" to "between Eqs. (9.23 and (9.26)".
443	Eq. (9.29)	Change "D_v" to "D_i" and "r_v" to "r_{iv}".
444	Eq. (9.31)	Change "D_v" to "D_i" and "r_v" to "r_{iv}".
445	line 4 in section 9.3	change "thickness, l" to "thickness, l,".
445	line 5 in section 9.3	change "fraction, f" to "fraction, f,".
445	Eq. (9.33)	change "dr/dt" to "dr_p/dt".
446	first line	change "by" to "be".
448	Fig. 9.11b caption	change "a phase" to "α phase".
450	second line below Fig. 9.13	Change "the γ' phase ($L1_2$), $NiAl_3$," to "the $NiAl_3$ phase ($D0_{11}$)".
452	two lines before Eq. (9.51)	remove "into" that appears after "Substituting…".
453	Eq. (9.59)	change last term to $\frac{kT}{4B}[\ln(S_v(1-\beta_i/\beta_v))]^2$.
453	line 1 after Eq. (9.59)	first word should be flush to LH margin.
454	line 4	remove "with".
454	pph 2, line 5	change "tout" to "out".
465	line 7	add "," after "Fig. 9.21a".
471	3rd line from bottom of page	Change "$\left\langle \delta_{vib}^2 \right\rangle$" to "$\left\langle \delta_{stat}^2 \right\rangle$".
472	Eq. (9.74)	Change "θ_0^2" to "θ_d^2".
473	Eq. (9.78)	Change "kT" in second term to the right of the equality to "kT_c".
476	line 1	replace "9.75" with "9.76".
478	line above Eq. (9.81)	change "ΔG_{ac}" to "ΔG_{ca}".
478	Eq. (9.81)	change "ΔG_{ac}" to "ΔG_{ca}".
479	Fig. 9.32	third word of label on the ordinate should be "material".
487	problem 9.3	Include "$E = 200$ MPa and $\nu = 0.3$"

Chapter 10

514	line below Eq. (10.57)	change "Eq. (10.56)" to "Eq. (10.57)".
515	line 1	remove "of".
521	Fig. 10.18	Change label #7 to "PS+RED+RIS+GA+DM".
528	line 8 above sec. 10.3.3	change " $\rangle 110 \langle$ " to "$\langle 110 \rangle$".
528	line 7 from bottom of page	replace "68" with "110".

Chapter 11

549	line 1 after Eq. (11.4b)	no indentation of paragraph.
554	line after Eq. (11.6)	eliminate one "ratio of".
569	line 2 from bottom of page	remove ":" after "irradiations".
570	Fig. 11.20 caption	should read "Comparison of hardening in commercial purity 304 (a) and 316 (b) stainless steel irradiated with neutrons or protons to similar doses (from [21])

Chapter 12

583	table at top	expression for "ε_{zz}" at stress "σ_{yy}" should be "$\varepsilon_{zz} = \frac{-\nu\sigma_{yy}}{E}$".
583	Eq. (12.3)	in expression for "ε_{zz}", last stress term should be "σ_{yy}".
584	line after Eq. (12.13)	insert "," after "μ".
593	Eq. (12.61)	after Eq., insert "and b is a factor dependent on orientation and with a value approximately equal to unity".
594	second line below Eq. (12.62)	change equation and text to "σ=$M\sigma_s$ where M is the Taylor defined as the ratio of the axial stress to the resolved shear stress".
594	Eq. (12.63)	change "*m*" to "*M*".
598	line below Eq. (12.72)	Eq. reference should be to "Eq. (5.82)".
599	line after Eq. (12.77)`	Eq. reference should be to "Eq. (12.76)".
604	second line in section on "*Loops*"	change section reference to "Sect. 12.2".
610	Eq. (12.102)	all stress terms should have a "Δ" in front of them.
613	line 10 below Eq. (12.107)	change "dose" to "dose".
620	third line from bottom of page	change "prodced" to "produced".
626	Eq. (12.129)	second equation should read $\Delta\sigma_y = 2.13\Delta H_v + 155$, $\Delta H_v > 100$ kg/mm^2
638	problem 12.2, first line	change to "the radius of a constant density of voids".
639	problem 12.4, last line	change reference to "Problem 12.3".

Chapter 13

644	Eq. (13.1)	denominator in argument for "sin" term should be "λ".
646	Eq. (13.11a)	remove subscript on "γ".
646	Eq. (13.11b)	remove subscript on "γ" and change "4" to "2" in numerator.
648	Figure 13.2a	distance from sample face to tip of crack should be defined as "*c*".
648	line above Eq. (13.18)	after "*crack extension force*", insert "(actually a force per unit length)".
651	third line below Eq. (13.25)	change "trip" to "tip".
659	line after Eq. (13.48)	should read "and $r \approx a$".
660	second line below Fig. 13.10	change "Eq. (13.51)" to "Eq. (13.50)".
666	4th line from bottom	change "flow stress" to "yield stress".
674	Fig. 13.23	Change label on second curve from bottom from "0.44" to "0.044".
696	first line after Eq. (13.90)	change to "where $f = R^2/b^2$ is the area fraction of cavities assuming a 1-dimensional representation of voids on the

		boundary. For a square lattice geometry, the fractional area occupied by the…"
706	problem 13.4b	change "7 x 10^6" to "700".
707	problem 13.7, line 3	change to "γ= 5 J/m^2".
708	reference 28	change to "Stoller RE (2004) J ASTM Int 1(4) Paper ID JAI11355."

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816	coherent precipitates	change "371" to "370".