Errata and typographic corrections

Ionic Transport Processes in Electrochemistry and Membrane Science

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p iii: “Helsinki University of Technology” should be “Aalto University”
p 21, line 1 after eqn (1.65): “eqn (1.50)” should be “eqn (1.60)”
p 29, eqn (1.95): $\vec{j}_u^{+}$ should be $\vec{j}_u$
p 29, eqn (1.96): $\vec{j}_e^{+}$ should be $\vec{j}_e$
p 55 footnote: “eqn (2.68). The” should be “eqn (2.68) the”
p 64 last line of eqn (2.129): ∇p should be $\vec{\nabla} p$
p 66 line 4 after eqn (2.133): $\overline{D}_{10}$ should be $\overline{D}_{1,0}$
p 67 eqn (2.140): $c_1(\vec{v}_1 - \vec{v}_0)$ should be $c_i(\vec{v}_i - \vec{v}_0)$
p 81 line 3 from bottom: “reactant” should be “reactants”
p 84 eqn (3.19): *m* should be *n*
p 91, eqn (3.56) THREE TIMES: resize the letters in the last fraction so that, e.g., “d” and “*x*” in d*x* have the same size
p 93, eqn (3.70): eliminate parentheses
p 96, Table 3.1, left column, line 8: $I_{L,1}$ should be $I_{\mathrm{L},1}$
p 96, Table 3.1, left column, line 14: I_{L0} should be $I_{\mathrm{L}0}$
p 96, Table 3.1, right column, first heading: “symmetric” should be “asymmetric”
p 96, Table 3.1, right column, line 8: $I_{L,1}$ should be $I_{\mathrm{L},1}$
p 96, Table 3.1, right column, line 9: $\Delta\phi \approx 0$ should be $\Delta\phi_{\mathrm{L}} \approx 0$
p 96, Table 3.1, right column, line 10: $\Delta\phi_{\mathrm{L}} \approx 0$ should be $\Delta\phi \approx 0$
p 96, Table 3.1, right column, line 11: $I_{L,i}$ should be $I_{\mathrm{L},i}$
p 96, eqn (3.83): I_L should be I_{L}
p 104, eqn (3.112): Γ(2/3)/Γ(1/3) should be 0.566
p 104, eqn (3.113): 0.505 should be 0.566
p 104, eqn (3.113): Γ(1/3) should be Γ(1/3)Γ(4/3)
p 104, eqn (3.114): Γ(2/3)/Γ(1/3)” should be 0.566
p 104, 2nd ¶, line 2: “later” should be “layer”
p 104, eqn (3.115) TWICE: Γ(2/3)/Γ(1/3) should be 0.566
p 142, 1st ¶, last line: $\mathrm{Pe}(c_i^{\alpha} - c_i^{\beta})/h$ should be $-\mathrm{Pe}(c_i^{\alpha} - c_i^{\beta})/h$
p 153, eqn (4.107) TWICE: RT should be $\nu_{12}RT$
(ν is the italic greek nu letter, same symbol as in the exponents of first line in p 154)
p 154, line 1: $\gamma_{\pm,12}$ should be γ_{12}
p 154, eqn (4.109): RT should be $\nu_{12}RT$
p 157, eqn (4.124): $\mathrm{e}^{-(\mu_{12}^{\circ,\mathrm{M}} - \mu_{12}^{\circ,\mathrm{w}})/RT}$ should be $\mathrm{e}^{-(\mu_{12}^{\circ,\mathrm{M}} - \mu_{12}^{\circ,\mathrm{w}})/\nu_{12}RT}$

(note that ν_{12} is the greek nu like in line 16 of p 281 and not the υ_{12} in 1st line of p 282)

p 163, caption Fig 4.21, line 6: “ratio” should be “the ratio”

p 163, Fig 4.22, y-axis label: $1/(\kappa_D^M$ should be $1/\kappa_D^M$

p 168, Table 4.1 (if possible): The equations in columns 2 and 3 have been aligned with the second line of text in column 1 and should be aligned at the centre between the two lines of text in column 1.

p 170, Fig 4.23, *x*-axis label (panels a, b, c and d): superscript “w” should be in roman style

p 170, Fig 4.23, *y*-axis label (panels c and d): superscripts “w” and “M” should be in roman style

p 210, caption Fig 4.42, line 1: “coion” should be “co-ion”

p 211, caption Fig 4.23, lines 9, 13, and 15: “coion” should be “co-ion”

p 222, line 4 (2nd line of 1st eqn): delete symbol ×

p 226, 2nd eqn from bottom: $= -\frac{F}{\varepsilon}\begin{cases} c_{12}^{w}e^{-\varphi} - c_{12}^{w}e^{\varphi} \\ c_{12}^{w}e^{-\varphi} - c_{12}^{w}e^{\varphi} + z_M c_M e^{-z_M\varphi} \end{cases}$ should be

$$= \frac{F}{\varepsilon}\begin{cases} 2c_{12}^{w}\sinh\varphi \\ 2c_{12}^{w}\sinh\varphi - z_M c_M e^{-z_M\varphi} \end{cases}$$

p 229, 2nd eqn in page (1st eqn in 4.25): add space in between the two lines of the eqn

p 248, line 2 after eqn (5.43): “carrier” should be “solute”

p 248, lines 2-3 after eqn (5.43): eliminate “, P_A^o and P_{CA} ”

p 250, eqn (5.52): $j_{C,L}$ should be $j_{C,L}$

p 270, Fig 5.26 (4 times, if possible) : “low” and “high” should be in uppercase

p 276, Ex. 5.3, line 2: “completely” should be “completely dissociated”

p 276, Ex. 5.4, equation: eliminate minus sign in right hand side

p 276, Ex. 5.4, equation: P_{CA}^o should be P_{CA}

p 276, Ex. 5.4, last line: “carriers” should be “carrier”

p 277, line 7: “(1983), 1–14” should be “(1983) 1–14”

p 278, line 2: A, B, C, E should be in italics

p 279: $I_{L,i}$ should be $I_{L,i}$

p 280 v solution velocity: the symbol v should be like the one used in eqn (1.1) (page 1) without the arrow above it

p 280 $\vec{v}$, $\equiv \sum_i w_i \vec{v}_i$ barycentric velocity (TWICE): the symbols $\vec{v}$ and $\vec{v}_i$ should be like the one used in eqn (1.1)

p 280 $\vec{v}_i$ velocity of component *i*: the symbol $\vec{v}_i$ should be like the one used in eqn (1.1)

p 280 $\vec{v}_\upsilon$ volume-average velocity: the subscript is correct but the symbol $\vec{v}$ should be like the one used in eqn (1.1)

p 280 δ_{jk} : δ_{jk} should be δ_{ik}

p 281 $\vec{\pi}_{\vec{v}}$: For the subscript use the same symbol $\vec{v}$ as in eqn (1.1)

p 282 *c* chemical contribution: c should be in roman style

p 282, add line: “*e* energy”

p 282, last line, make equal the sizes of letters D and *t*