Corrections to

Lie Groups, Lie Algebras, and Cohomology

In the corrections below, allowance needs to be made for the difference between the typesetting process for the book and the typesetting process for this file. The book used Courier type from a typewriter with Roman symbols, and this file uses Computer Modern fonts with \TeX and math italic symbols.

Page 23, line −4. Change “\mathfrak{gl}(n, \mathbb{C})” to “GL(n, \mathbb{C})”.


Page 29, Example (3). Change “\pi \begin{pmatrix} 0 & a & c \\ 0 & 0 & b \\ 0 & 0 & 0 \end{pmatrix} = (a)” to “d\pi \begin{pmatrix} 0 & a & c \\ 0 & 0 & b \\ 0 & 0 & 0 \end{pmatrix} = (a)”.

Page 31, statement of Corollary 1.13c. Change “local isomorphism” to “local group isomorphism and local diffeomorphism”.

Page 64, first display. Change left side of equation from “(E)” to “\bigwedge (E)”.

Page 78, first line of display preceding Corollary 2.16. Change “\pi_1(\iota X \otimes \iota Y - \iota Y \otimes \iota X - \iota [X,Y])” to “\pi_1(\iota X \otimes \iota Y - \iota Y \otimes \iota X - \iota [X,Y])”.

Page 80, line −3. Change “\{Y_I | I increasing” to “\{Y_I | I increasing}”.

Page 100, line 5. Change “\langle u, v \rangle = \int_G \Phi(x) u, v \ dx” to “\langle u, v \rangle = \int_G \Phi(x) u, \Phi(x) v \ dx”.

Page 108, line 2. Change “Both [E_{\alpha}, E_{-\alpha}] and B_0(\mathbb{E}_{\alpha}, E_{-\alpha})” to “Both [E_{\alpha}, E_{-\alpha}] and B_0(\mathbb{E}_{\alpha}, E_{-\alpha}) H_\alpha”.

Page 122, line 8. Change “= B_0(H, \mathbb{H}_{\alpha}) B_0(E_{\alpha}, E_{-\alpha}) = B_0(H, B_0(E_{-\alpha}, E_{-\alpha}) H_\alpha)” to “= B_0(H, \mathbb{H}_{\alpha}) B_0(E_{\alpha}, E_{-\alpha}) = B_0(H, B_0(E_{\alpha}, E_{-\alpha}) H_{\alpha})”.

Page 128, line 9. Change “v” to “v_0”.

Page 128, line 14. Change “v” to “v_0”.

Page 130, line 8. Change “x_{k,\sigma(k)}” to “x_{k,\sigma^{-1}(k)}”.

Page 134, line 4. Change “|\mu|^2 \leq \langle \lambda, \mu \rangle - \sum n_\alpha (\alpha, \mu) \leq \langle \lambda, \mu \rangle” to “|\mu|^2 = \langle \lambda, \mu \rangle - \sum n_\alpha (\alpha, \mu) \leq \langle \lambda, \mu \rangle”.

Page 140, display in line 14. Change third expression from “(g, q(\varphi_\gamma(gq)))” to “(g, q(\varphi_\gamma(gq)))”.

Page 141, line −1. Equality at end of line is to read \begin{pmatrix} * & 0 \\ * & 1 \end{pmatrix} = q”.

Page 210, line 2. Change “all X_n are injective” to “all X'_n are injective”.

Page 272, line 4. Change “(u \varphi)(1)” to “(u \varphi)(1)”.
Page 272, lines 5 and 6. Change “where \( u \varphi \) refers to left-invariant differentiation by \( u \)” to
“where \( u \varphi \) refers to iteration of left-invariant differentiation by members of \( X \) acting by \( X\varphi(g) = \frac{d}{dt} \varphi(g \exp tX)\)|_{t=0}”.

Page 272, line 8. Change “\( \varphi_0(u\ell) = \ell^{\text{tr}}(\varphi_0(u)) \)” to
“\( \varphi_0(u\ell) = \ell^{\text{tr}}(\varphi_0(u)) \) for \( \ell \) in \( U(l) \)”.

Page 286, line −8. Change “fucntors” to “functors”.

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