

ERRATA FOR  
An Introduction to Lie Groups and the Geometry of  
Homogeneous Spaces

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- Page 2, line -10: replace  $\psi_\alpha^{-1}$  by  $\phi_\alpha^{-1}$
- Page 3, line -9: replace  $\phi$  by  $\phi_i$
- Page 5, line 13: write ... an open interval in  $\mathbb{R}$  containing 0.
- Page 8, line 3: write ... for all  $s, t \in I$ ,
- Page 11, line -12: write ...  $\det B = 1$
- Page 12, line -1: replace  $g$  by  $a$
- Page 20, line 11: write ...  $Z(t) = \sum_{n=0}^{\infty} t^n Z_n(X, Y) \dots$
- Page 24, line -13: write  $\Phi G \times V \rightarrow V$
- Page 27, line 12: replace (b) by (c)
- Page 27, line 17: write ... for all  $u, v \in V \dots$
- Page 28, line 14: write ... irreducible
- Page 34, line 11: write  $\text{ad } X \circ \text{ad } X$
- Page 51, line -1: replace  $m$  by  $p$
- Page 53, line -6: replace  $\lim_{t \rightarrow o}$  by  $\lim_{t \rightarrow 0}$
- Page 65, line -8: write  $G/K \rightarrow G/K$
- Page 75, line -6: replace  $\text{Ad}^{G/K}$  by  $\text{Ad}^{G/K} \otimes \mathbb{C}$
- Page 93, line 12: write ... that leaves invariant the Hermitian inner product ...
- Page 102, line 12: write ... Example 4 of Section 3 ...
- Page 103, line -10: replace  $\mathfrak{m}_2 \oplus \mathfrak{m}_2$  by  $\mathfrak{m}_2 \oplus \mathfrak{m}_3$
- Page 106, line 2: replace  $\cup$  by  $\sqcup$
- Page 106, line 4: insert “Here  $\sqcup$  denotes disjoint union.” before “Condition (a) defines an ordering ...”
- Page 109, line -12: write ... Example 4, Section 3 ...

- Page 109, line -8: write ...set of roots ...
- Page 111, line 14: replace + by  $\oplus$
- Page 111, line -2: write ... a subset of  $\Pi$ , ...
- Page 127, line -4: replace ...connected Riemannian space ...by ...connected Riemannian homogeneous g.o. space ...
- Page 127, lines -5, -6: replace  $SU(5)/U(2)$  by  $SO(5)/U(2)$
- Page 133, line -3: replace the title of the reference by “Riemannian manifolds with homogeneous geodesics”