

CORRECTIONS TO Introduction to Complex Manifolds

BY JOHN M. LEE
JUNE 19, 2024

- (6/15/24) **Page 25, fourth full paragraph, lines 4 and 8:** Change $\sigma \circ \pi$ to $\pi \circ \sigma$ (twice).
- (6/15/24) **Page 25, fourth full paragraph, line 7:** Delete the repeated phrase “*rough (local or global) section of E* is a map $\sigma : U \rightarrow E$.”
- (6/15/24) **Page 26, line 8 from the bottom:** Change $[Y_2, X_1]$ to $[Y_1, X_2]$.
- (6/19/24) **Page 46, line 2:** Change $(\partial \bar{F}^k \partial \bar{z}^k)$ to $(\partial \bar{F}^k / \partial \bar{z}^j)$. [Insert missing slash and fix incorrect index.]
- (6/17/24) **Page 60, line 2 from the bottom:** Change $[x_0, \lambda_j(x_0), 1]$ to $[1, x_0, \lambda_j(x_0)]$.
- (6/18/24) **Page 80, Example 3.21, lines 3 & 4:** “Holomorphic” is misspelled.
- (6/18/24) **Page 91, two lines above the displayed equation:** Delete repeated “on.”
- (6/18/24) **Page 94, second-to-last line:** Change “Theorem 3.41” to “Theorem 3.39.”
- (6/18/24) **Page 110, second full paragraph, first line:** Change z_1 and b_1 to z^1 and b^1 , respectively, so the formula reads $\bar{D}_R(z^1) \supseteq D_\varepsilon(b^1)$.
- (6/18/24) **Page 115, third line:** Change “write β ” to “write an arbitrary vector-valued form β .”
- (6/18/24) **Page 115, two lines above the second-to-last display:** Change $\omega \in \mathcal{E}^q(\text{End}(E))$ to $\omega \in \mathcal{E}^q(M; \text{End}(E))$.
- (6/18/24) **Page 123, three lines above Example 5.2:** Change $S_k(U)$ to $\mathcal{S}_k(U)$.
- (6/17/24) **Page 145, Problem 5-7:** Change $\mathcal{H}om$ to $\mathcal{H}om$ (three times). [This printing error, which also occurs on page 191, should be fixed in later printings and later versions of the ebook.]
- (6/18/24) **Page 145, Problem 5-8(a):** Change “Exercise 5.6” to “Problem 5-1.”
- (6/17/24) **Page 191, Problem 6-9(b):** Change $\mathcal{H}om$ to $\mathcal{H}om$.