

Mathematical Analysis II

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Errata

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This list of errata records substantive changes made since the version of December 18, 2009.

Version of May 11, 2017

- (1) Chapter 6, §2, Example (b). Change “Now define a map D on E' by setting $D(u) = u$ ” to “Now define a map D on E' by setting $D(u) = u'$.”
- (2) Chapter 6, §3ff. We have uniformly changed the notation “ $df(\vec{p}, \cdot)$ ” to “ $df(\vec{p}; \cdot)$ ” to make it parallel to “ $df(\vec{p}; \vec{u})$ ”.
- (3) Chapter 6, §4, after formula (6). Change

$$\begin{aligned}w(\vec{x}) &= g(f(\vec{x})) - g(\vec{q}) - V(f(x) - f(p)) - V(u(x)) \\ &= v(f(\vec{x})) + V(u(\vec{x})).\end{aligned}$$

to

$$\begin{aligned}w(\vec{x}) &= g(f(\vec{x})) - g(\vec{q}) - V(f(\vec{x}) - f(\vec{p})) - V(u(\vec{x})) \\ &= v(f(\vec{x})) + V(u(\vec{x})).\end{aligned}$$

- (4) Chapter 6, §4, Problem 11(ii), change “ $f = (f_1, f_2)$, $f_1(\vec{x}) = \sum_{k=1}^n x_k$, $f_2(\vec{x}) = |\vec{x}|^2$ ” to “ $f(\vec{x}) = |\vec{x}|^2$ ”.
- (5) Chapter 6, §6, Problem 11(ii), change “ $h \circ (f \pm g) = h \circ f + h \circ g$ ” to “ $h \circ (f \pm g) = h \circ f \pm h \circ g$ ”.
- (6) Chapter 6, §7, proof of Theorem 1, beginning of sentence containing formula (3), change “ $h(0) = \vec{s}$ ” to “ $h(0) = f(\vec{s})$ ”.
- (7) Chapter 6, §7, end proof of Theorem 3, change “ $U^{-1} = dg(\vec{y}, \cdot)$ ” to “ $U^{-1} = dg(\vec{y})$ ”.
- (8) Chapter 8, §8, before Part I, change “(Chapter 6, §§5–§§6)” to “(Chapter 7, §§5–§§6)”.
- (9) Index. Many spelling corrections, link corrections, spacing corrections, and re-ordering of subitems in lists.