

Mathematical Analysis II

by

ELIAS ZAKON

Errata

The latest version of this book is always at the web page

<http://www.trillia.com/zakon-analysisII.html>

The date of distribution of any version can be found on the Terms and Conditions page of the book.

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.