Additions to Second Edition Errata and Comments
December 17, 2002

Once again, many thanks to Harry Hirsch and Len Smiley for pointing out these errors.

Page 392  For consistency, the last line of Equation 3.8.68 should be \( \vec{b}(s(t)) \), not \( \vec{b} \).

Page 417  Margin note, third line from the bottom: “introducing them”, not “introducing then”.

Page 426  In the margin note about the error function, the \( 2 \pi \) on the left should be \( \sqrt{2\pi} \):

\[
\frac{1}{\sqrt{2\pi}} \int_0^a e^{-t^2} dt = \frac{1}{2} \text{erf} \left( \frac{a}{\sqrt{2}} \right).
\]

Page 429  Caption to Figure 4.3.2, last sentence: “The center region is black”, not “The center region of is black”.

Page 472  Last margin note: Definition 2.1.11 does not exist. Column operations are defined by replacing the word “row” in Definition 2.1.1 of row operations by the word “column”.

Page 480  In two places in the first line after Equation 4.8.44, \( \text{sgn}(\sigma) \) should be \( \text{sgn}(\sigma') \): “and the result follows from \( \text{sgn}(\tau^{-1} \circ \sigma') = \text{sgn}(\tau^{-1})(\text{sgn}(\sigma')) = -\text{sgn}(\sigma') \), since . . . ”

Page 564  Equation 6.1.23 should be

\[
dx_{i_1} \wedge \cdots \wedge dx_{i_k} (\vec{e}_{j_1}, \ldots, \vec{e}_{j_k}). \tag{6.1.23}
\]

Equation 6.1.24 should be

\[
dx_{j_1} \wedge \cdots \wedge dx_{j_k} (\vec{e}_{j_1}, \ldots, \vec{e}_{j_k}) = 1. \tag{6.1.24}
\]

Page 580  Caption to Figure 6.3.1: “we choose a tangent vector field”, not “we choose tangent vector field”.

Page 606  Line 4: clockwise, not counter-clockwise.

Page 607  Line immediately before Equation 6.5.15: “orientation-preserving”, not “orientation-preserving”.

Page 616  Definition 6.6.2, part (2): \([ D \left( \frac{f}{g} \right) \left( x \right) ] \), not \([ D \frac{f}{g} \left( x \right) ] \)

Page 619  Caption to Figure 6.6.7, last sentence: “However, the two-dimensional...”, not “However, that the two-dimensional...”.