

Application Inspired Linear Algebra

Errata

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This document lists known errors in the first printing of the textbook. This listing includes a page number in bold face type followed by an explanation of the error and the necessary correction.

(11) The grid of numbers at the top of the page should read:

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

(47) In the final statement of Example 2.3.12, the vector space should be $(V, +, \cdot)$.

(51) The text in Theorem 2.3.15 should read “Then $0 \cdot x = 0$ for each ...”.

(55) The fourth bullet in the proof of Example 2.4.1 should read “And, addition is associative ...”.

(63) In Example 2.4.17, the second illustration should be:

$$\begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} = \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}.$$

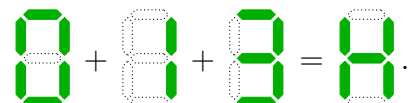
(78) In problem 5(a), “ H ” should be “ \mathcal{J}_{11} ”.

(88) In Example 3.1.6, the second illustration should be:

$$\begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} = \begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}.$$

(88) The text on line 3 should read “...linear combination of $\begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$, $\begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$, and $\begin{array}{|c|} \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$.”

- (104) In two places where “ $x - z$ ” is used in the proof of Theorem 3.1.29, it should read “ $z - x$.”
- (107) In Exercises 13, omit the first occurrence of the word “matrix”.
- (107) In Exercises 14, omit the first occurrence of the word “matrix”.
- (113) In the caption of Figure 3.6, the parenthetical remark should be “(the x_1x_3 -plane)”.
- (118) In Example 3.2.18, the second illustration should be:


$$\text{8} + \text{8} + \text{8} = \text{8}.$$