# Application Inspired Linear Algebra
# Typographical Errors

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This document lists known typographical 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.

**(74)** Just before Theorem 2.5.18, the sentence contains an extra article "a" and should read: "The intersection of two subspaces is also a subspace."

**(81)** The introduction to Exercises 32 to 35 should be boldface.

**(93)** The equation in the middle of the page should read

$$b = \begin{pmatrix} b_1 \\ b_2 \\ \vdots \\ b_m \end{pmatrix} \in \mathbb{R}^m.$$

**(96)** In the proof, the equals signs should vertically align.

**(98)** The equation at the bottom of the page has a misplaced period mark showing up on the next line.

**(112)** In Example 3.2.2, the given set should not have a period after the third image.

**(117)** In Example 3.2.16, the first highlighted equation should end with a period.

**(235)** The third bullet item in Definition 4.5.5 is missing an open parenthesis "(" just before the word "replacing."

**(324)** Definition 5.3.1 should begin "The **transpose** of $n \times m$ matrix ..."

**(334)** Near the end of Example 6.2.2 there are missing parentheses, the equation should read "$L(w) = Mw = \dots$".

**(334)** In Definition 6.2.4 there are missing parentheses, the set definition should should read "$L(v) = \lambda v$".

**(413)** The second sentence in the proof of Theorem 7.1.12 should be with a capital letter ("We ...").