

Applied Linear Algebra

by Peter J. Olver and Chehrzad Shakiban

Corrections to Instructor's Solution Manual

Last updated: December 15, 2013

$$1.2.4 (d) \quad A = \begin{pmatrix} 2 & -1 & 2 \\ -1 & -1 & 3 \\ 3 & 0 & -2 \end{pmatrix}, \quad \mathbf{x} = \begin{pmatrix} u \\ v \\ w \end{pmatrix}, \quad \mathbf{b} = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix};$$

$$(e) \quad A = \begin{pmatrix} 5 & 3 & -1 \\ 3 & 2 & -1 \\ 1 & 1 & 1 \end{pmatrix},$$

$$(f) \quad \mathbf{b} = \begin{pmatrix} -3 \\ -5 \\ 2 \\ 1 \end{pmatrix}.$$

$$1.4.15 (a) \quad \begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix}.$$

1.8.4 (i) $a \neq b$ and $b \neq 0$; (ii) $a = b \neq 0$, or $a = -2$, $b = 0$; (iii) $a \neq -2$, $b = 0$.

$$1.8.23 (e) \quad (0, 0, 0)^T;$$

2.2.28 (a) By induction, we can show that, for $n \geq 1$ and $x > 0$,

$$f^{(n)}(x) = \frac{Q_{n-1}(x)}{x^{2n}} e^{-1/x^2},$$

where $Q_{n-1}(x)$ is a polynomial of degree $n - 1$. Thus,

$$\lim_{x \rightarrow 0^+} f^{(n)}(x) = \lim_{x \rightarrow 0^+} \frac{Q_{n-1}(x)}{x^{2n}} e^{-1/x^2} = Q_{n-1}(0) \lim_{y \rightarrow \infty} y^{2n} e^{-y} = 0 = \lim_{x \rightarrow 0^+} f^{(n)}(x),$$

because the exponential e^{-y} goes to zero faster than any power of y goes to ∞ .

$$2.5.5 (b) \quad \mathbf{x}^* = (1, -1, 0)^T, \quad \mathbf{x} = z \left(-\frac{2}{3}, -\frac{1}{3}, 1 \right)^T;$$

$$2.5.31 (d) \quad \dots \text{ while cokernel } U \text{ has basis } (0, 0, 0, 1)^T.$$

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Applied Linear Algebra Peter J. Olver, Chehrzad Shakiban, 2018-05-30 This textbook develops the essential tools of linear algebra with the goal of imparting technique alongside contextual understanding Applications go hand in hand with theory each reinforcing and explaining the other This approach encourages students to develop not only the technical proficiency needed to go on to further study but an appreciation for when why and how the tools of linear algebra can be used across modern applied mathematics Providing an extensive treatment of essential topics such as Gaussian elimination inner products and norms and eigenvalues and singular values this text can be used for an in depth first course or an application driven second course in linear algebra In this second edition applications have been updated and expanded to include numerical methods dynamical systems data analysis and signal processing while the pedagogical flow of the core material has been improved Throughout the text emphasizes the conceptual connections between each application and the underlying linear algebraic techniques thereby enabling students not only to learn how to apply the mathematical tools in routine contexts but also to understand what is required to adapt to unusual or emerging problems No previous knowledge of linear algebra is needed to approach this text with single variable calculus as the only formal prerequisite However the reader will need to draw upon some mathematical maturity to engage in the increasing abstraction inherent to the subject Once equipped with the main tools and concepts from this book students will be prepared for further study in differential equations numerical analysis data science and statistics and a broad range of applications The first author's text *Introduction to Partial Differential Equations* is an ideal companion volume forming a natural extension of the linear mathematical methods developed here

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