

# Applied Linear Algebra

by Peter J. Olver and Chehrzad Shakiban

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## Corrections to Student Solution Manual

Last updated: July 21, 2013

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

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

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

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

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

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

2.5.42 True. If  $\ker A = \ker B \subset \mathbb{R}^n$ , then both matrices have  $n$  columns, and so  $n - \text{rank } A = \dim \ker A = \dim \ker B = n - \text{rank } B$ .

3.4.22 (v) Change “null vectors” to “null directions”.

4.4.27 (a) Change “the interpolating polynomial” to “an interpolating polynomial”.

$$4.4.52 (b) \quad z = \frac{3}{5}(x - y).$$

(The solution given is for the square  $S = \{ 0 \leq x \leq 1, 0 \leq y \leq 1 \}$ .)

# Applied Linear Algebra Olver Solutions

**National Physical Laboratory (Great  
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