

ERRATUM

Linear Programming

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The publisher regrets the errors published in the print and online versions of this book, corrections to Chapter 3, page 29, and Chapter 14, page 211, have been updated and can be found on the next pages.

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E1

Chapter 3 Degeneracy

Page 29, the below three display equations were wrong

$$\begin{array}{r} \zeta = \quad 6x_1 - 4x_2 \\ \hline w_1 = 0 + 9x_1 + 4x_2 \\ w_2 = 0 - 4x_1 - 2x_2 \\ w_3 = 1 \quad - x_2. \end{array}$$

$$\begin{array}{r} \zeta = \quad 6x_1 - 4x_2 \\ \hline w_1 = 0 + \epsilon_1 \quad + 9x_1 + 4x_2 \\ w_2 = 0 \quad + \epsilon_2 \quad - 4x_1 - 2x_2 \\ w_3 = 1 \quad + \epsilon_3 \quad - x_2. \end{array}$$

$$\begin{array}{r} \zeta = \quad - 1.5w_2 + x_2 \\ \hline w_1 = 0 + \epsilon_1 + 2.25\epsilon_2 \quad - 2.25w_2 - 0.5x_2 \\ x_1 = 0 \quad + 0.25\epsilon_2 \quad - 0.25w_2 - 0.5x_2 \\ w_3 = 1 \quad + \epsilon_3 \quad - x_2. \end{array}$$

should be replaced by

$$\begin{array}{r} \zeta = \quad 6x_1 + 4x_2 \\ \hline w_1 = 0 + 9x_1 + 4x_2 \\ w_2 = 0 - 4x_1 - 2x_2 \\ w_3 = 1 \quad - x_2. \end{array}$$

$$\begin{array}{r} \zeta = \quad 6x_1 + 4x_2 \\ \hline w_1 = 0 + \epsilon_1 \quad + 9x_1 + 4x_2 \\ w_2 = 0 \quad + \epsilon_2 \quad - 4x_1 - 2x_2 \\ w_3 = 1 \quad + \epsilon_3 \quad - x_2. \end{array}$$

$$\begin{array}{r} \zeta = \quad 1.5\epsilon_2 \quad - 1.5w_2 + x_2 \\ \hline w_1 = 0 + \epsilon_1 + 2.25\epsilon_2 \quad - 2.25w_2 - 0.5x_2 \\ x_1 = 0 \quad + 0.25\epsilon_2 \quad - 0.25w_2 - 0.5x_2 \\ w_3 = 1 \quad + \epsilon_3 \quad - x_2. \end{array}$$

Chapter 14

Network Flow Problems

Page 211, “Hence, arc (f,c) must enter the spanning tree” should read “Hence, arc (f,b) must enter the spanning tree”.

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