Chapter 1

Systems of Linear Equations and Matrices

Section 1.1

Exercise Set 1.1

1. (a), (c), and (f) are linear equations in x_1, x_2, and x_3.
   (b) is not linear because of the terms $x_1 x_3$.
   (d) is not linear because of the terms x_1^{-2}.
   (e) is not linear because of the terms $x_1^{3/5}$.

3. (a) and (d) are linear systems.
   (b) is not a linear system because the first and second equations are not linear.
   (c) is not a linear system because the second equation is not linear.

5. By inspection, (a) and (d) are both consistent; $x_1 = 3$, $x_2 = 2$, $x_3 = -2$, $x_4 = 1$ is a solution of (a) and $x_1 = 1$, $x_2 = 3$, $x_3 = 2$, $x_4 = 2$ is a solution of (d). Note that both systems have infinitely many solutions.

7. (a), (d), and (e) are solutions.
   (b) and (c) do not satisfy any of the equations.

9. (a) $7x - 5y = 3$
   $$x = \frac{5}{7}y + \frac{3}{7}$$
   Let $y = t$. The solution is
   $$x = \frac{5}{7}t + \frac{3}{7}$$
   $$y = t$$

   (b) $-8x_1 + 2x_2 - 5x_3 + 6x_4 = 1$
   $$x_1 = \frac{1}{4}x_2 - \frac{5}{8}x_3 + \frac{3}{4}x_4 - \frac{1}{8}$$
   Let $x_2 = r$, $x_3 = s$, and $x_4 = t$. The solution is
   $$x_1 = \frac{1}{4}r - \frac{5}{8}s + \frac{3}{4}t - \frac{1}{8}$$
   $$x_2 = r$$
   $$x_3 = s$$
   $$x_4 = t$$

11. (a) $\begin{bmatrix} 2 & 0 & 0 \\ 3 & -4 & 0 \\ 0 & 1 & 0 \end{bmatrix}$ corresponds to:
   $2x_1 \qquad = 0$
   $3x_1 - 4x_2 = 0$
   $\qquad x_2 = 1$

Chapter Linear Systems Dsp

Glenn Zelniker,Fred J. Taylor

Chapter Linear Systems Dsp:

   Digital Signal Processing: A Practical Guide for Engineers and Scientists Steven Smith,2013-10-22 In addition to its thorough coverage of DSP design and programming techniques Smith also covers the operation and usage of DSP chips He uses Analog Devices popular DSP chip family as design examples Covers all major DSP topics Full of insider information and shortcuts Basic techniques and algorithms explained without complex numbers   Digital Signal Processing with Examples in MATLAB® Samuel D. Stearns,Donald R. Hush,2016-04-19 Based on fundamental principles from mathematics linear systems and signal analysis digital signal processing DSP algorithms are useful for extracting information from signals collected all around us Combined with today s powerful computing capabilities they can be used in a wide range of application areas including engineering communicati   Digital Signal Processing with Examples in MATLAB®, Second Edition Samuel D. Stearns,Donald R. Hush,2002-08-28 In a field as rapidly expanding as digital signal processing even the topics relevant to the basics change over time both in their nature and their relative importance It is important therefore to have an up to date text that not only covers the fundamentals but that also follows a logical development that leaves no gaps readers must somehow bridge by themselves Digital Signal Processing with Examples in MATLAB is just such a text The presentation does not focus on DSP in isolation but relates it to continuous signal processing and treats digital signals as samples of physical phenomena The author also takes care to introduce important topics not usually addressed in signal processing texts including the discrete cosine and wavelet transforms multirate signal processing signal coding and compression least squares systems design and adaptive signal processing He also uses the industry standard software MATLAB to provide examples of signal processing system design spectral analysis filtering coding and compression and exercise solutions All of the examples and functions used in the text are available online at www crcpress com Designed for a one semester upper level course but also ideal for self study and reference Digital Signal Processing with Examples in MATLAB is complete self contained and rigorous For basic DSP it is quite simply the only book you need   Foundations of Digital Signal Processing Patrick Gaydecki,2004 This book covers the basic theoretical algorithmic and real time aspects of digital signal processing DSP Detailed information is provided on off line real time and DSP programming and the reader is effortlessly guided through advanced topics such as DSP hardware design FIR and IIR filter design and difference equation manipulation   Advanced Digital Signal Processing Glenn Zelniker,Fred J. Taylor,1993-10-28 Provides a detailed treatment of the concepts and applications of advanced digital signal processing   Analog and Digital Signal Processing Professor Hussein Baher,2001-10-15 Building on the success of the first edition this popular text book has now been updated and revised Covering both analog and digital signal processing techniques in an evenly balanced manner Professor Baher provides an excellent introductory and comprehensive text emphasising how analog and digital techniques complement each other rather than compete Brings the entire area of signal processing within the scope of modern undergraduate curricula

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   - Chapter 3: Chapter Linear Systems Dsp in Everyday Life
   - Chapter 4: Chapter Linear Systems Dsp in Specific Contexts
   - Chapter 5: Conclusion

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