CHAPTER 1 ☐ MATLAB EXERCISES

1. Consider the linear system of Example 7 in Section 1.2.

$$x - 2y + 3z = 9$$
$$-x + 3y \qquad = -4$$
$$2x - 5y + 5z = 17$$

(a) Use the MATLAB command **rref** to solve the system.

(b) Let A be the coefficient matrix, and B be the right-hand side of the system.

$$A = \begin{bmatrix} 1 & -2 & 3 \\ -1 & 3 & 0 \\ 2 & -5 & 5 \end{bmatrix} \qquad B = \begin{bmatrix} 9 \\ -4 \\ 17 \end{bmatrix}$$

Use the MATLAB command A\B to solve the system.

2. Enter the matrix

$$A = \begin{bmatrix} -3 & 2 & 4 & 5 & 1 \\ 3 & 0 & 2 & -2 & 0 \\ -9 & 4 & 6 & 12 & 2 \end{bmatrix}.$$

Use the MATLAB command **rref** to find the reduced row–echelon form of A. What is the solution to the linear system represented by the augmented matrix A?

3. Solve the linear system

$$16x - 120y + 240z - 140w = -4$$
$$-120x + 1200y - 2700z + 1680w = 60$$
$$240x - 2700y + 6480z - 4200w = -180$$
$$-140x + 1680y - 4200z + 2800w = 140$$

You can display more significant digits of the answer by entering **format long** before solving the system. Return to the standard format by entering **format short**.

4. Use the MATLAB command **rref** to determine which of the following matrices are row–equivalent to

$$B = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}.$$

(a) $\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 0 & -1 & -2 \\ 0 & 1 & 2 & 3 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & 3 & 2 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}$ (c) $\begin{bmatrix} 12 & 11 & 10 & 9 \\ 4 & 3 & 2 & 1 \\ 8 & 7 & 6 & 5 \end{bmatrix}$

5. Let A be the coefficient matrix, and B the right-hand side of the linear system of equations

$$3x + 3y + 12z = 6$$
$$x + y + 4z = 2$$
$$2x + 5y + 20z = 10$$
$$-x + 2y + 8z = 4.$$

Enter the matrices A and B, and form the augmented matrix C for this system by using the MATLAB command **C = [A B]**. Solve the system using **rref**.

6. The MATLAB command **polyfit** allows you to fit a polynomial of degree $n - 1$ to a set of n data points in the plane

$$(x_1, y_1), \quad (x_2, y_2), \quad \ldots, \quad (x_n, y_n).$$

Find the fourth-degree polynomial that fits the five data points of Example 2 in Section 1.3 by letting

$$x = \begin{bmatrix} -2 \\ -1 \\ 0 \\ 1 \\ 2 \end{bmatrix} \qquad y = \begin{bmatrix} 3 \\ 5 \\ 1 \\ 4 \\ 10 \end{bmatrix}$$

and entering the MATLAB command **polyfit(x,y,4)**.

Matlab Exercises For Dsp With Solution

Woon-Seng Gan,Sen M. Kuo

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Digital Signal Processing Thomas Holton,2021-02-18 Combining clear explanations of elementary principles advanced topics and applications with step by step mathematical derivations this textbook provides a comprehensive yet accessible introduction to digital signal processing All the key topics are covered including discrete time Fourier transform z transform discrete Fourier transform and FFT A D conversion and FIR and IIR filtering algorithms as well as more advanced topics such as multirate systems the discrete cosine transform and spectral signal processing Over 600 full color illustrations 200 fully worked examples hundreds of end of chapter homework problems and detailed computational examples of DSP algorithms implemented in MATLAB and C aid understanding and help put knowledge into practice A wealth of supplementary material accompanies the book online including interactive programs for instructors a full set of solutions and MATLAB laboratory exercises making this the ideal text for senior undergraduate and graduate courses on digital signal processing

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Table of Contents Matlab Exercises For Dsp With Solution

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    - The Rise of Digital Reading Matlab Exercises For Dsp With Solution
    - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Exercises For Dsp With Solution
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Matlab Exercises For Dsp With Solution
    - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Exercises For Dsp With Solution

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