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When we put these two variables into the third equation we get $16 + 12 + 2y_3 = 38$ $y_3 = 5$. When all of these variables are put into the fourth equation we have $8 + 6 + 15 + y_4 = 30$ $y_4 = 1$. Using these values of y_i we now want solve

$$\begin{bmatrix} 4 & 1 & 0 & 0 \\ 2 & 10 & 3 & 2 \\ 0 & 2 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} = \begin{bmatrix} 8 \\ 6 \\ 15 \\ 1 \end{bmatrix}$$

The fourth equation gives $x_4 = 1$.

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consider a matrix \tilde{G} of size $(n + 1) \times (n + 1)$ partitioned into a leading matrix G
 $\begin{bmatrix} G & \mathbf{h} \\ \mathbf{g}^T & g \end{bmatrix}$ of size $n \times n$. $G = G \quad \mathbf{h} \quad \mathbf{g}^T \quad g$

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$a_{n+1,n+1}$. Now by expanding the determinant of G along its last column we see that $|G| = a_{n+1,n+1}|G_{11}| = a_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$, proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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science, engineering, and related fields to the principles and practice of numerical computation.

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Describe the asymptotic behavior of the solution as $t \rightarrow 1$, and the stability properties of the zero equilibrium

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solution. Solution: The solution is still valid as a complex solution. If $\text{Re } a > 0$, then $u(t) \rightarrow \infty$ as $t \rightarrow \infty$, and the origin is an unstable equilibrium. If $\text{Re } a = 0$, then $u(t)$ remains bounded $t \rightarrow \infty$, and the origin is a stable equilibrium.

Solutions | Chapter 8

From MATLAB's command line type $A =$

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randn (3, 4) to generate a 3 x 4 matrix with random entries. To learn more about the randn command, type help randn. Now type $x = \text{randn} (4,1)$ to get a vector (a 4 x 1 matrix) of random numbers. To multiply A by x and store the result in a new vector b, type $b = A*x$.

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After looking at a few books on matrix computations I believe that that Fundamentals of Matrix Computations by David S. Watkins does the best job of balancing theory and practice. Being a self learner I found this book easy to read, provided enough practical advice

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Math 782 (EECS 782): Numerical Analysis II

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From MATLAB's command line type $A = \text{randn}(3, 4)$ to generate a 3×4 matrix with random entries. To learn more about the `randn` command, type `help randn`. Now type $x = \text{randn}(4, 1)$ to get a vector (a 4×1 matrix) of random numbers. To multiply A by x and store the result in a new vector b , type $b = A*x$.

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A by x and store the result in a new vector b , type $b = A*x$. Fundamentals of Matrix Computations | David S. Watkins... Fundamentals of Matrix Computations Second Edition David S. Watkins A Wiley-

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