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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 $\begin{bmatrix} 4 & 1 & 2 & 10 & 3 & 2 & 10 & 0 & 2 & 30 & 0 & 0 \\ 1 & x_1 & x_2 & x_3 & x_4 & = & 8 & 6 & 5 & 1 \end{bmatrix}$. The fourth equation gives $x_4 = 1$.

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consider a matrix G of size $(n + 1) \times (n + 1)$ partitioned into a leading matrix G of size $n \times n$. $G = \begin{pmatrix} G & 0 \\ h^T & g \end{pmatrix}$. Now by expanding the determinant of G along its last column we see that $|G| = g_{n+1,n+1} |G| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$, proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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Describe the asymptotic behavior of the solution as $t \rightarrow \infty$, and the stability properties of the zero equilibrium solution. Solution: The solution is still valid as a complex solution. If $\operatorname{Re} a > 0$, then $u(t) \rightarrow \infty$ as $t \rightarrow \infty$, and the origin is an unstable equilibrium. If $\operatorname{Re} a = 0$, 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 = randn(3, 4)` to generate a 3×4 matrix with random entries. To learn more about the `randn` command, type `help`

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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 $b = A*x$.

Fundamentals of matrix computations | David S Watkins ...

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 to write high quality algorithms, and provided a good foundation for more ...

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Midterm #1: To be announced a week in advance (Covers Chapters 1 and 2)

Midterm #2: To be announced a week in advance (Covers Chapters 3 and 4) Final exam

Math 782 (EECS 782): Numerical Analysis II

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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