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... easily generalizes to \mathbb{R}^n or \mathbb{C}^n . For example, if the space Y in (4.9.3) is also an invariant subspace for T , then $T(y) \in Y$ for each $y = 1, 2, \dots, q$, and only the y_i 's are needed to represent $T(y)$ in (4.9.4). Consequently, the β_j 's are all zero, and $[T]B = [A \ 0 \ 0 \ \dots \ 0] \times [X \ Bx \ 0 \ A^{-1}x \ 0]^T = [A \ 0 \ 0 \ \dots \ 0] \times [C \ Qx \ 0 \ Y]^T$. By this notion ...

as well as the product RQ must also be in upper-Hessenberg form. 5.7.8. Approximately how many multiplications are needed to reduce an n x n nonsingular upper-Hessenberg matrix to upper-triangular form by using plane rotations? 356 5.8 Chapter 5 Norms, Inner Products, and Orthogonality DISCRETE FOURIER TRANSFORM For a positive integer n >= 1, let e_n = [1, 0, ..., 0]^T in C^n. Let F_n be the n x n matrix with entries F_n(k, j) = (1/n) * exp(-2*pi*i*k*j/n). This matrix is unitary and its inverse is its conjugate transpose. The roots of unity are cyclic in the sense that if k < n, then omega^k mod n, then omega^(k mod n) denotes the remainder when k is divided by n—for example, when n = 6, omega^8 = omega^2, omega^9 = omega^3, omega^10 = omega^4, omega^11 = omega^5, omega^12 = omega^0 = 1. The number n = 6 is the order of omega, and omega^6 = 1. Let x = [x_1, ..., x_n]^T in C^n. Then F_n x = [y_1, ..., y_n]^T in C^n. If F_n x = y, then x = F_n^{-1} y = F_n^H y, where F_n^H is the Hermitian adjoint of F_n. The number n = 6 is the order of omega, and omega^6 = 1. Let x = [x_1, ..., x_n]^T in C^n. Then F_n x = [y_1, ..., y_n]^T in C^n. If F_n x = y, then x = F_n^{-1} y = F_n^H y, where F_n^H is the Hermitian adjoint of F_n. The number n = 6 is the order of omega, and omega^6 = 1. ...

Chapter 7 Eigenvalues and Eigenvectors for N (L) to a basis for C^n by building Jordan chains on top of each b in B. If b is in S_i, then there exists a vector x such that Lx = b because each b in S_i belongs to M_i = R(L) \subset R(L). A Jordan chain is built on top of each b in S_i by solving the system Lx = b for x and by setting B_j = [Lx, L^2x, ..., L^kx, x]. (7.7.2) ...

(a) $\text{Col}(T) = \text{Col}(Y) = \text{Col}(X) = \text{Col}(T - Y) = \text{Col}(X - Y) = \text{Col}(T - X) = \text{Col}(0) = \{0\}$. (b) $\text{Col}(T) = \text{Col}(X) = \text{Col}(Y) = \text{Col}(T - Y) = \text{Col}(X - Y) = \text{Col}(T - X) = \text{Col}(0) = \{0\}$

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