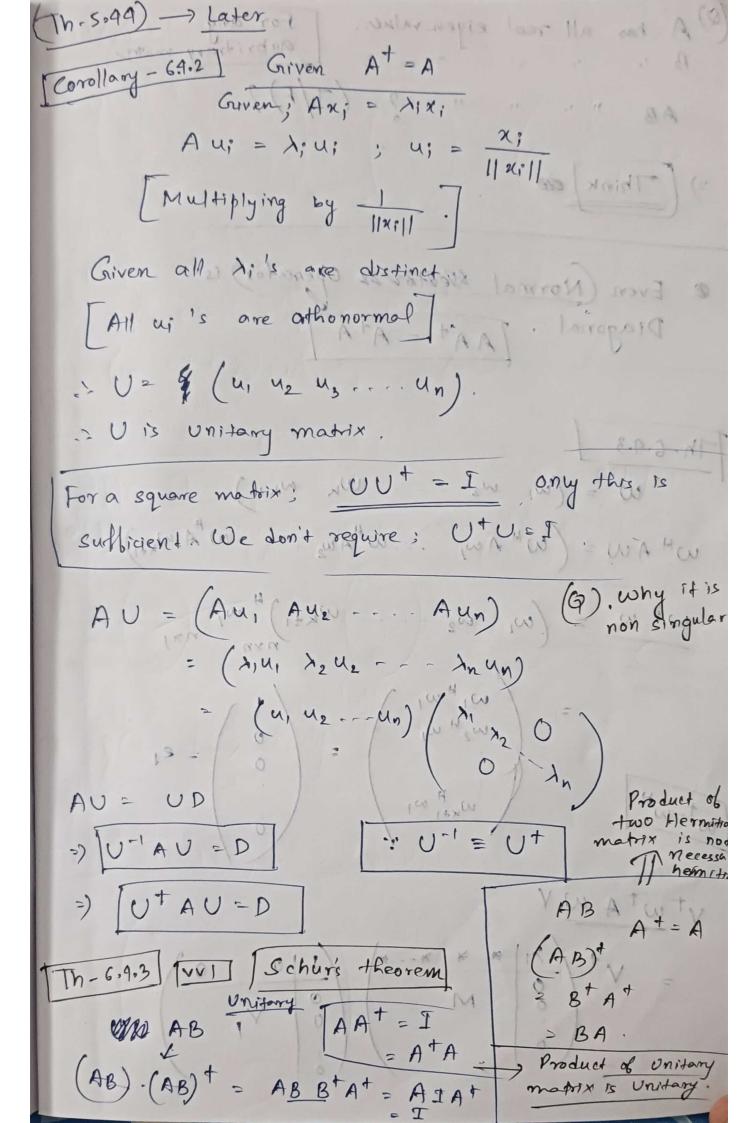
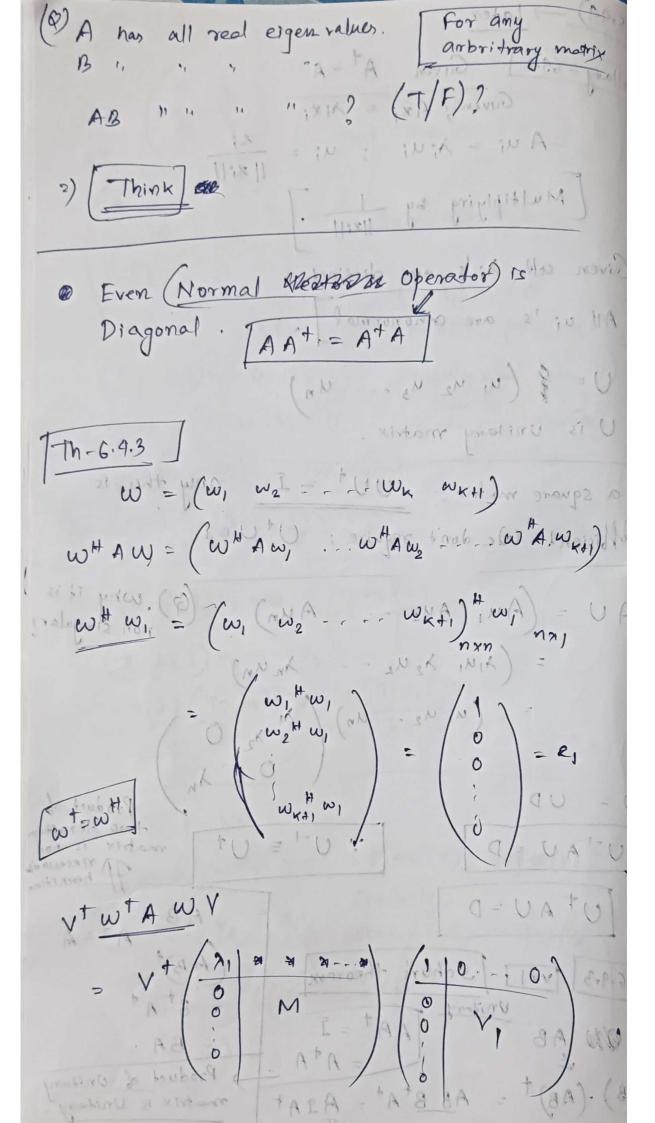
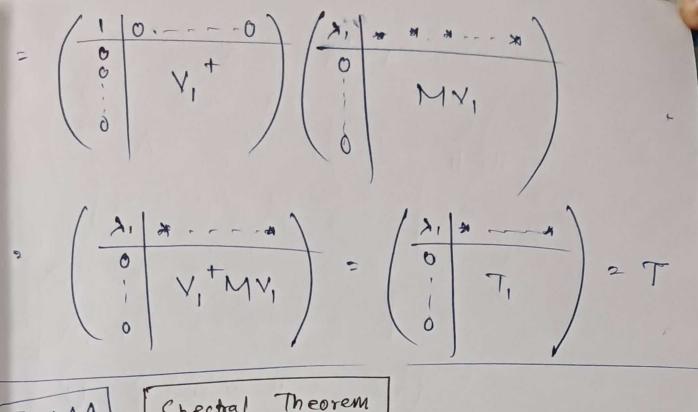


Th-5,40 2×2 matrix. Find the eigenvalues! " These are 9, C TAN 2008 n(1-1,1) x, = 0 (7-11) - (7-1mI) VI 0=1×(P1K-T) / Multiplying both & then using commutativity (T- 121) (T-11) V, = 0 commutativity is justified So, (T-1, 1) (T- 121) Ni = 0 peroitment tor sti - (T-A2I) Y2 = C Span (V1) = (T-12 1) V2 2 CV1 (T- 1, 1) (T- 1, 1) V2 = ((T-1, 1) V, = C.X.O. = O. T(Y1) = 2, V1 (v) span (v) - span (o) $(T-\lambda_1\hat{I})\vee_1=0$ (T-21) Y2 = a14 Span (Y1, V2) - span (Y1) · S (u) = S (w) , u + w (7-1x1) = 0







Th. 6.4.9 | Spectral Theorem

It A is Hermittan, then there exists a unitary matrix U that diagonalizes A.

=> w

The Real Schur Decomposition

o we will do for some man special, real, ..., stochastic metrix