





Dhua, main 12 1 4 11 A11 and interesting and useful secoult, which is similar to theorem is the following Theorem 2. For any non matrix A, and each outsitsasy & TO, there enicks a national norm 11:11, with the persperty that PCAS+E. The person of this meanet is beyond the scope of this course & namples. Determine the 6- norm of A=1 2 Robution To apply theorem!, are need to compute the spectral radius of At A, at me first need the eigenvalues of ATA! | 1 | = | 2AtA= The characteristic polynomial of the alione matrin is olet (1+ A-) I)=0 +0 5-2 4 3-2 6-2 4 -1 2 5-λ | -1 $6-\lambda = 0$ 4 -2 5-2 - 23 + 14 22 - 472 + 42 + 42 + 28 + 2-14 = 0. $-3^3 + 143^2 - 423 = 0$ $\lambda^{3} - 14\lambda^{2} + 42\lambda = 0$ カキロ、カンキナーンラ、カョキオナンタ P(ATA) = man 30, 7-17, 7+173 = 7+07 11 Alle = JP(ATA) = N7+17. 33.106. 3.2 Convergent Mato res In absolying iterative motors teoringues, at is of paroaclas importance to private when powers of a material accesse amale contact is when all the entire approach zero). Matoines of this type.