The directions Px Southify Px+ APx=0, 1ff Pet 13 A-Conjugate to Pk, with A a Symmetric Positive definite matrix. Suppose Ars positive symmetric destinite, let Pr be en ergen vector A the mouthoux A, with Consponding eropen value &k - Elian APK = ykk -for K=1, --- IN So Some X & Rosen and is & symmetric positive definite then I nergen vectors Pi, ... In which are motually or thogonal je (Ri, li) = 0 f iti, hara there fore Pr APT = (PKH, APK) = (PKM, ) PK) = > (PKH, PK) Some king posotre brokegor, so kill & k those fine; Pun A Pr = > (0) = 0 Hore durations Pk Satisfy Pk+1 + Py=0 Smo throng one motually or thogonal, here A-low Jake to Each other.