5) An=b Condition number of A = ||A||, ||A||, = max mag(A) minimay (A) For A to be on the gond, (i) Maxmag (A) = Minimag (A) = 1 // For Onthogonal A Condition number of A=1, Hence 11311 4 1. 11861 So the solution is stable w.n.t perturbations. Also thus ont hogonal matrices effectively do so me notation/ reflection or combination of both and does not do any scaling (ii) Benefits in Compution for orthogonal A, A = AT Hence a= AT b is a solution to the equation. Thus in verse computation is very simple