Given  $p(A|Z) \Rightarrow largest abs organizable ZI$ .

Want A-I non-stragalar det  $|A-I| \neq 0$ We set A-I is stragular then (A-I)X = 0  $AX = X \Rightarrow I$  is ergenvalue  $\Rightarrow p(A) \ge I \Rightarrow confron distribut$   $\Rightarrow (A-I) \land an-singular$ 

B.  $B = A \ E \ I - A^{-1} (A - B) I$   $\Rightarrow ||A^{-1}(A - B)|| \le ||A^{-1}|| \cdot ||A - B|| < ||A^{-1}|| \cdot ||A^{-1}|| - ||A^{-1}$ 

 $C \cdot \| A \| \leq \| A^{-1} \|$  A + A = A + A

-6A = A - (A+6A)  $||-6A||^{2} ||6A|| = ||A - (A+FA)|| \ge \frac{1}{||A-1||}$   $||-6A||^{2} ||6A|| = ||A - (A+FA)|| \ge \frac{1}{||A-1||}$   $||-6A||^{2} ||6A|| = ||A - (A+FA)|| \ge \frac{1}{||A-1||} \Rightarrow ||A + 6A|| \le nonsingular$   $||-6A||^{2} ||-6A||^{2} ||-6A||^{2} = ||A - (A+FA)|| \le \frac{1}{||A-1||} \Rightarrow ||A + 6A|| \le nonsingular$