

-2x2+5x+1 Q > 0() < 0Positive definite negative Q con be Q >0 definite in definite Positive semi définite Negative serri definite Q>0 for any 2 2CT Q2 30 all eigenvalues>0 matrix of eigen rector Diagonal mather of eigen values λ, y,2+λ2y2+ -+ λη yn= y-/ y = E 2

min $\sum_{t=1}^{T} S_{t}QS_{t} + \alpha_{t}Ra_{t}$ $S_{t}+S_{t}=1$ $S_{t}+S_{t}=1$ $S_{t}+S_{t}+S_{t}U_{t}$ Dynamic programing (mathematical Induction) $S_{t}+S_{t}=1$ $S_{t}+$