WWINTE BAN GLOUNTS NOIS C : namelam teclor in the components we, orth o mesun and of 6 N (0, 5 2) 1. g. Goursian mise Pown dan 17 pm un 1 gf ben 1/2 JH. 13 : 2 3 Roya B:1 (W4 B:0 White _ C JB/seline 10 10 10 1 10 100 B = 1 BLVK PSYCHO ACOUSTIC EQUAL GOOMES CURVE 40 10 2 10 1 1 12 100 7

FORCED RESPONSE

oulput prestition

Han H=Ma

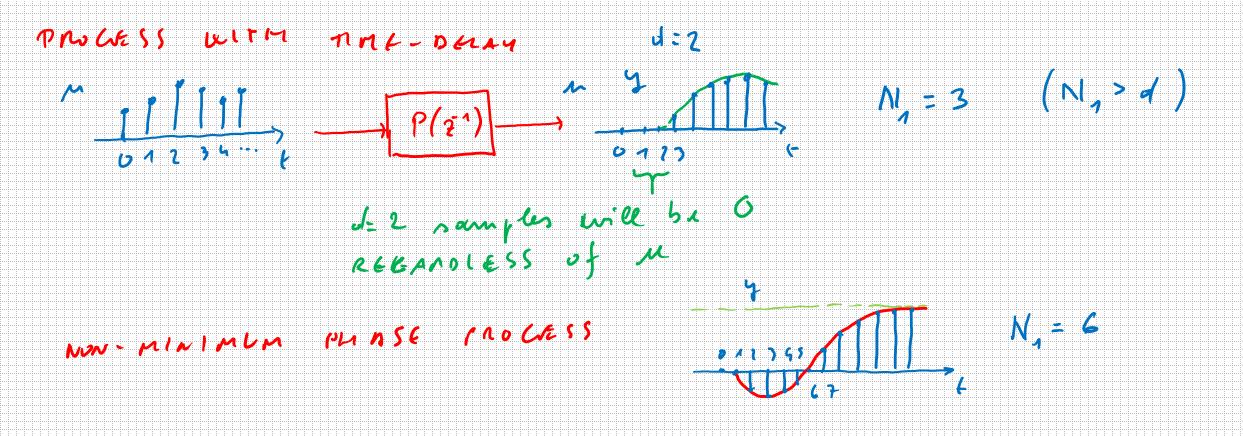
Prediction but

To Juliue Control

edian million

OBJECTIVE FUNCTION

- Ir cense case the Julius mins (the difference between the - It beand, the consel effort (u, , sm) 7 (N U N) 2 SC; YC (Ex) (C) - W (Ex) (Ex) (Ex) (D) (Du (Ex)) (D) (D) (C) it might be PREDICTED FUTURE ENTERS Ni Creoletion Honizon (u(++j))2 Nicks U: CONTUBL HOP (300) SIR WEIGHTS COR TIME ENHARM MYD THE



GAND L CAN BE USED TO CENALIZE STEADY-STATE ERMONS MONE THAN INITIAL ONES

OFTEN THE hteenence majerong RIFERENCE TRAJ. W . It might be kown in the fulme 15 DIFFERENT FROM THE REFERENCE (tays cony of a nobotic serme on e) the SILNAL TI Compression of a chemical maces) - It might be mot thouse in the Julius SET 101N CHAWGE A THUM G 3 - Line (y (x) 14 4 = 0 w(t+k|+) = dw(t+k-1/t)+(1-2)/t(e+h), if k?? 26(0,1)

OPTIMIZATION PROBLEM

= 3 (m (E(+) , m (E+) , -, m (E+) , -2 (E)) UNCONSTRAINES **01**Τ. problem | M Ng UNKROUNS M = [n(e14), --, m(exu, -114)] UP THE GPT. PAPELEN - LINEAN SYTTEM MODEL, QUARRATIC J - CLOSED - FORM SOLUTION - NOT TRUE LE WE SOO CONSTINATION

CONSTMAINED OPT. Phoblem min J(M)
M

N.t. Mnin (M(++31+) & Mnn, , j=0,..., N2-1

Nnin & M(++)+1|+)-M(++j|+) & Amax , j=6,..., N2-2

Ynw & Y(++j+1+) & Ynax , j=0,..., N2-1

687 / INING THE CONTROL (AU

T = [N2] S(3) (g(+1)|+) - w(++j))2 + [= 1] (j) (Bu(++j-1+))2

i: Nn

Na & Na Carme Lucrizer

= Du (++j-1+)= u (++ Du-1+), Du+1 < j < N2

- Du (++j-1+)= u (++ Du-1+), Du+1 < j < N2

(in id mobsined by a put. com'estions of u

=17 we also restrict the member of withours

STRUCTURING THE CHINE LAW

ル(++&|+) = ニンル,(*) 方,(*&) ル(++&|+) = ニンル,(*) 方,(*&) SET SEEESO

TO BE SELECTED

BASED ON THE PROCESS

Example: earywoniac BASE concrows { 1, k, k²,..., k^m}

At time t the opt, problem man return

n vailues $\mu^{*}(t)$ (m whoms as Ny unknows)