



REGULADORES DE TIEMPO FINITO

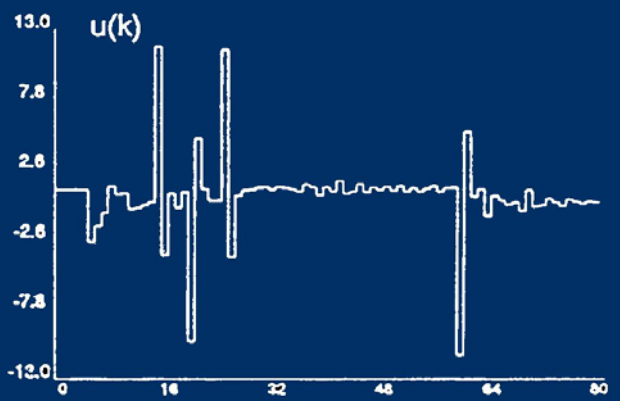
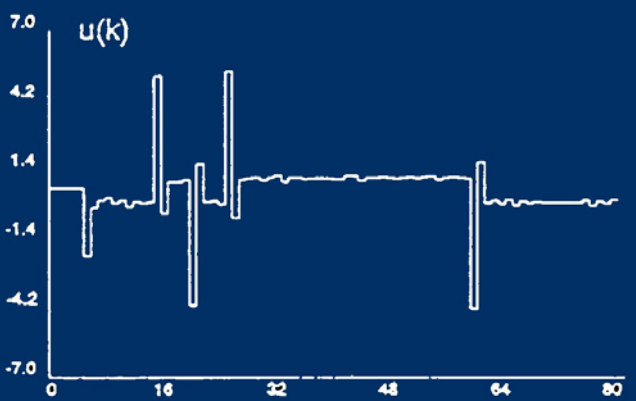
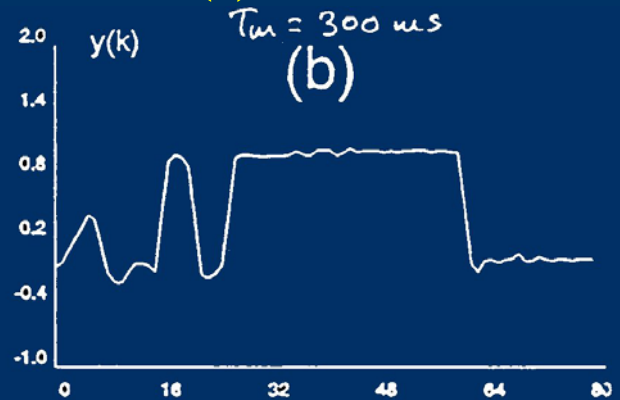
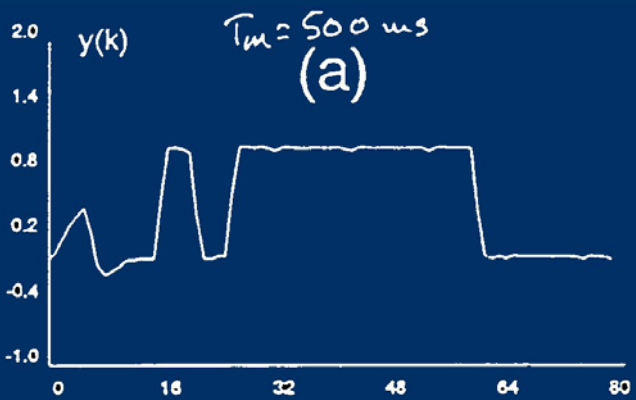
RESPUESTA ANTE CONSIGNA Y PERTURBACIONES CONTROL TIEMPO FINITO



NORMAL

INCREMENTADO

INFLUENCIA DE T_m EN CONTROLADOR DE TIEMPO FINITO (I)



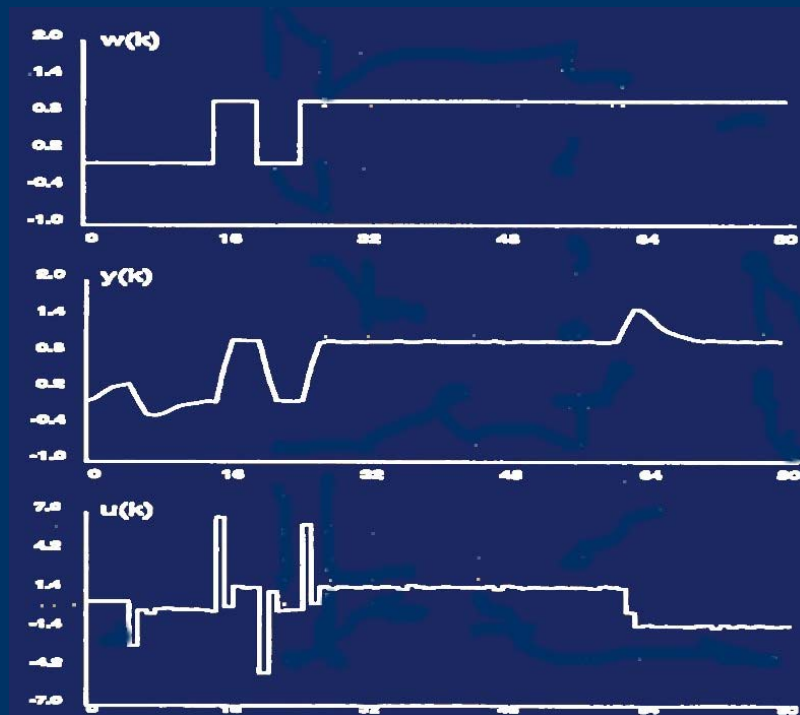
INFLUENCIA DE T_m EN CONTROLADOR DE TIEMPO FINITO (II)

$$Gp(s) = \frac{1}{(s+1)(s+3)}$$

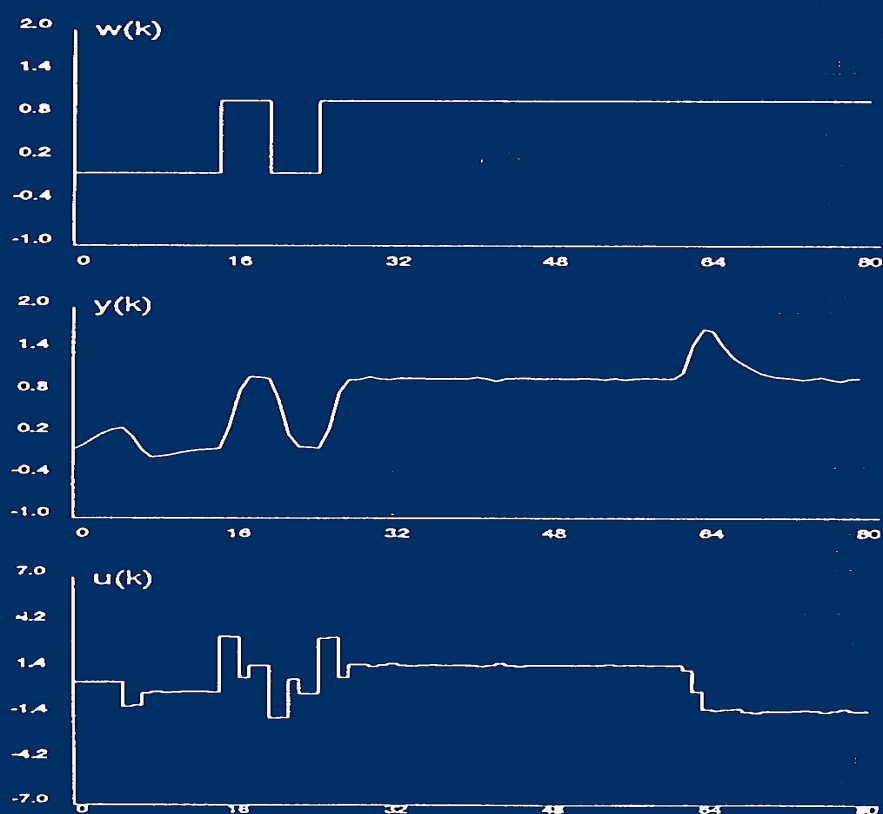
Tabla 3.5 Influencia del periodo de muestreo en $u(0)$

T_m (seg)	0.1	0.2	0.5	0.8	1.0	2.0	4.0	8.0
b_1	0.004	0.015	0.067	0.124	0.157	0.266	0.324	0.3332
b_2	0.004	0.012	0.034	0.043	0.042	0.021	0.003	0.0001
a_1 (-)	1.646	1.367	0.829	0.540	0.417	0.138	0.018	0.0003
a_2	0.670	0.450	0.135	0.040	0.018	0.000	0.000	0.0000
Σb_i	0.008	0.027	0.102	0.167	0.200	0.287	0.327	0.3333
$1-a_1$	2.646	2.367	1.829	1.540	1.417	1.138	1.018	1.0003
<u>$u(0)$ NOR</u>	121.9	36.67	9.823	5.990	4.995	3.480	3.058	3.0000
<u>$u(0)$ INC</u>	46.1	15.49	5.370	3.890	3.520	3.060	3.001	2.9999

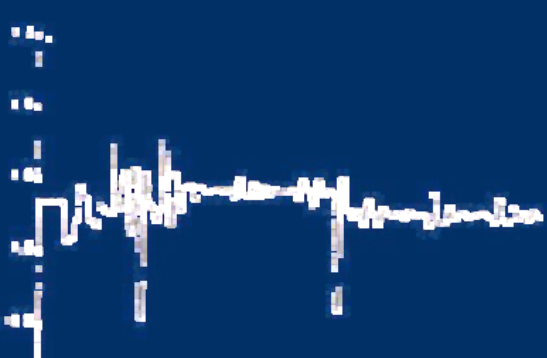
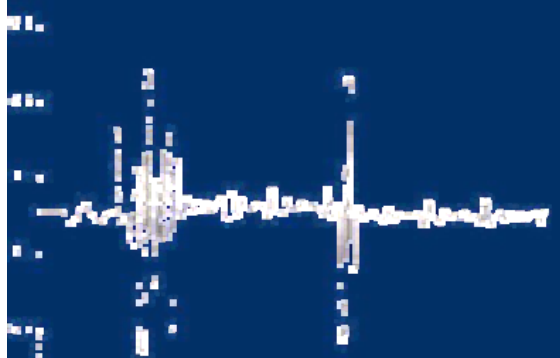
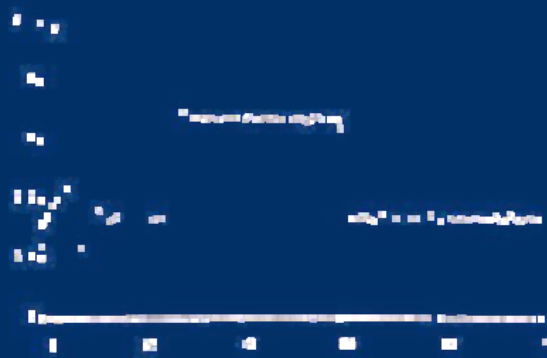
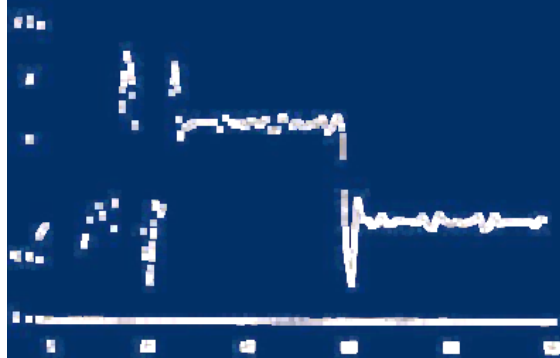
CONTROL ADAPTATIVO (TIEMPO FINITO DE ORDEN NORMAL) TR



CONTROL ADAPTATIVO (TIEMPO FINITO ORDEN INCREMENTADO) TR



CONTROL ADAPTATIVO EN TIEMPO REAL CON a)APN / b)APA



a

b