

The state of the s	ect) =rct) -yit)	trackin	g enr: ec∞)=(d(t)	: disturba	unce Signal						H
Given o	jeneral TF Gu), design (controller wit	TF Cus	, find Cu	s) . s.t. the fi	ollowing a	ve sati:	fied:			
Spec. 0	: For any bout	ided ron,	den both ye	or ects o	and ucts o	are bounded						
	Note: e(t) =r(t)-ym ↔	yen=ren-een									
	(feedback loop	or close	d-loop sys is	BiBO sto	able)							
Spec. b	: When dat) 3	O Lnd o	listurb.) , for	all ret) is	n a class 1	R of signals	the trad	eing err.	ect) ac	hieves (E(00) = 0	
	cperfect asy	mpt. track	king)									
Spec. c	: When there is	disturba	nce, for all d	tt) in a c	ious D of	signals, and	ter all	ret) in	the clas	u R,		
	the tracking	err. achie	eves e (00) = 1	0								
	Cdisturbance	rejection	11 Coptional	requires	Ment)							