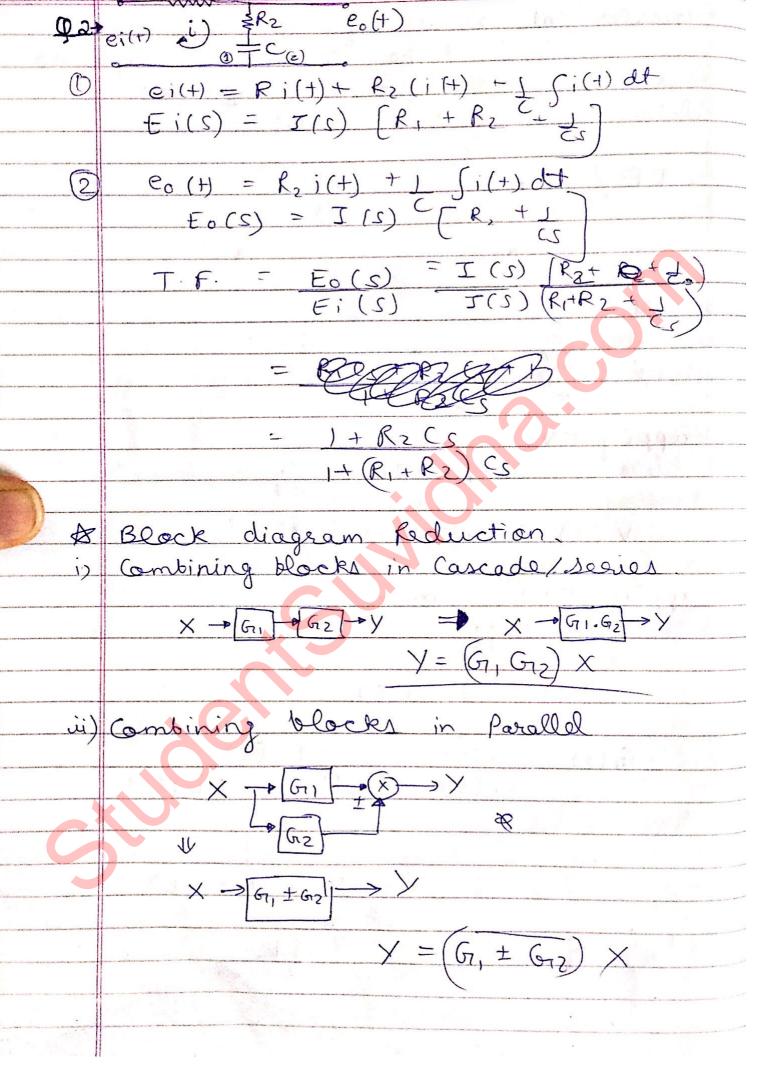
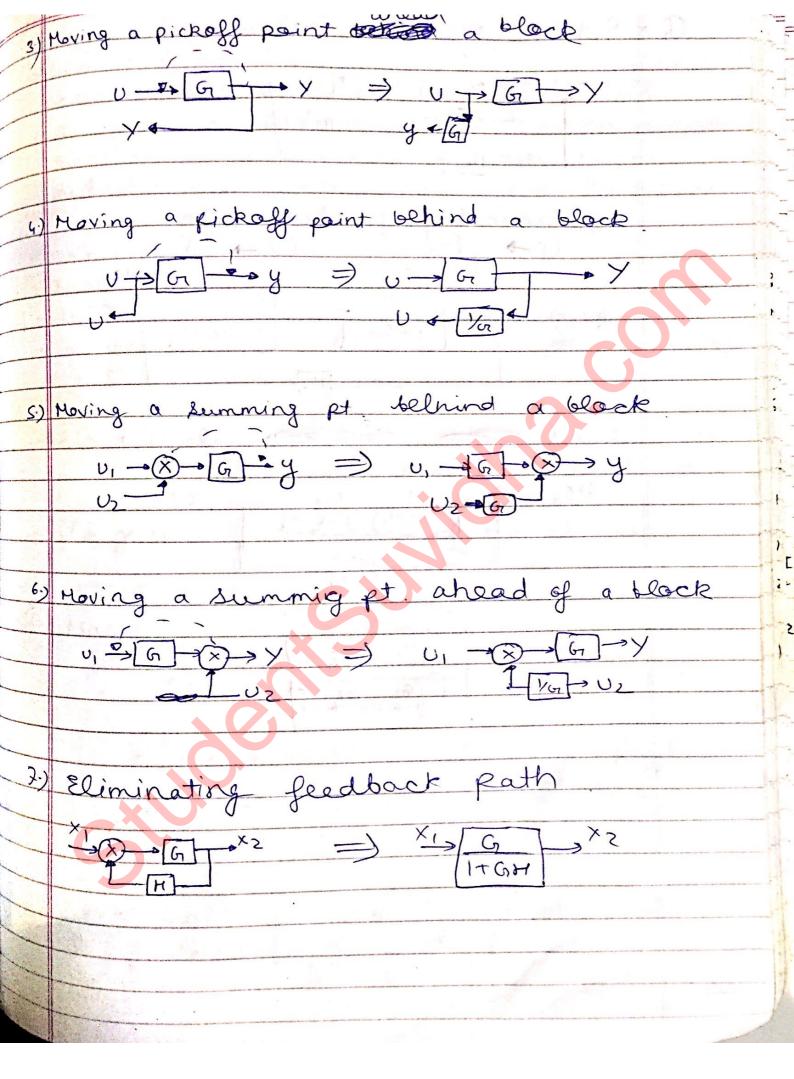
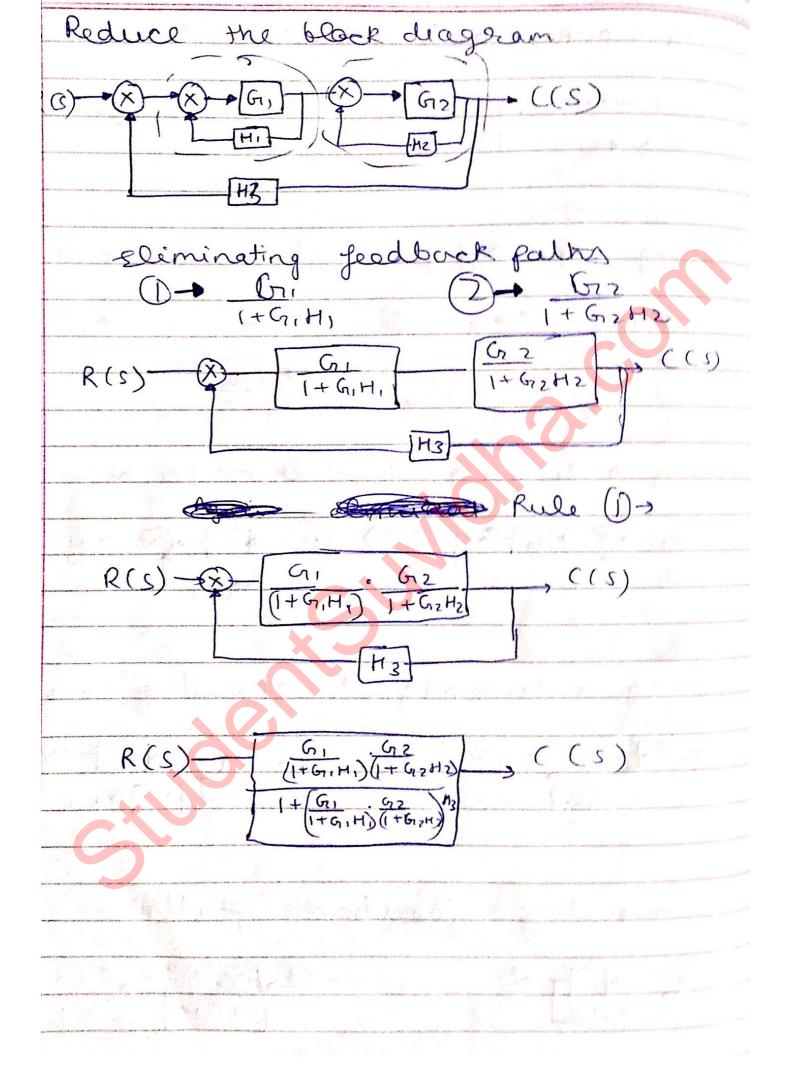


	N. J.
	Adv. Disadv. more reliable \rightarrow Expensive
	more reliable \Rightarrow Expensive faster \Rightarrow Diff maintenance
	optimization is > complicated install
	possible ation.
€.g-	A.C (Theormostat).
	and the second of the second o
	Camparisan
	Open 100p Clased 100p
<u>-</u> -!·)	Perform accurately is Perform better to
	if the calibration is of the feedback.
	good.
<u>نا)</u>	Easier to build: ii) Diff. to build.
	becon af foodback
(ننه	More stable in loss stable
	than open loop.
-	
10.)	optimization not 10) Optimization is
	possible possible
V.	Economical U.) Expensive.

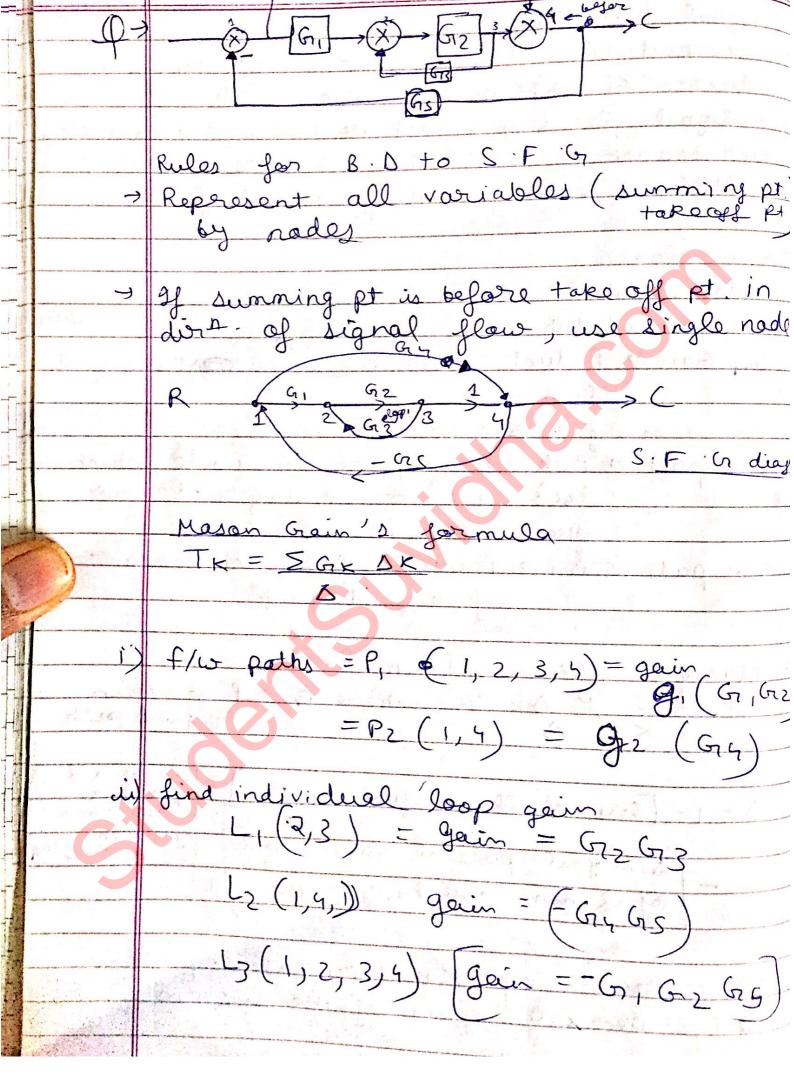
Voorsfer fort. > ratio of Laplace transform
Of the O/P to the Laplace transform of i/p with all initial condition o $T \cdot F / G_1(es) = \frac{C_1(es)}{R_1(S)}$ find Gr(S) Vi(s) = Ri(s) + s Li(s) apply .KVL in mesh Vo(S) = S Li(S) $G_1(s) = V_0(s) = SLi(s)$ $V_1(s) = Ri(s) + SLi(s)$







agnal flow Graph , Developed by S.J Mason for Black diagram reduction of complicated systems In signal flow graph, each node => system variable. Each branch connected b/co 2 rodes = signal multiplier. Direction of signal flow & overous * resminologies - Node → variable - loop + closed Path - loop Gain - Product of branch transmission Hances, of loop_ → Non - touching loop → No common nade = f/w path + Path from ip to o/p nade which does not cross any node more than once > the path Gain > Product of branch transmittance, of a fued path. Mason's Grain formula PK DK where PK > Path Grain of find path. sun of all D=1- [Sum of all individual 100p gain] + possible. loop gain Sum of all possibl gain products of 2 non-touching loop of 3 non - touching loops



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find all 2 not touching loops

L, & Lz are not touching

L, Lz (gain = - G72 G73 G74 G75) calculate Δ , $\Delta = 1 - \left[\text{Sum of individual large gard}\right]$ + $\left[\text{Sum of all ind 2 net touchi}\right]$ D=1-[015023-02402-0402]+[-0150361 1-1-6263+6465+646565-636465 Calculate ΔK $A = Part of \Delta$ not touching Path 1 (Pi) $D_1 = 1$ $\Delta_2 = Part$ of Δ not touching Path 2 (P2) $\Delta_2 = 1 - Gr_2 Gr_3$ $T = \sum_{\Delta} \Delta K P_{K} = \Delta_{1}g_{1} + \Delta_{2}g_{2}$ = 1(G1G2) + (1-G263)G2