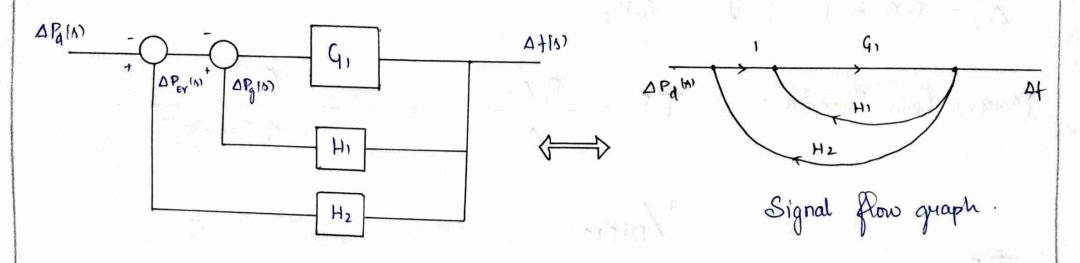
BLOCK DIAGRAM REDUCTION



$$G_{1} = \frac{1}{D+SM}$$

$$H_{1} = -\frac{\left[S\left[K_{p}\beta\alpha_{0}R+1\right]+K_{z}\beta\alpha_{0}R\right]\left[1+SF_{p}T_{r}\right]}{RRS\left(1+ST_{q}\right)\left(1+ST_{c}\right)\left(1+ST_{r}\right)}$$

$$H_{2} = -\frac{\left[K_{p}\beta\alpha_{1}K_{ev}+8+K_{z}\beta\alpha_{1}K_{ev}\right]e^{-8t}}{S+S^{2}T_{ev}}$$

$$P_1 = G_1$$
 ; $L_1 = G_1H_1$; $\Delta = 1 - [H_1 + H_2]G_1$

$$\Delta_1 = 1 - 0 = 1$$
 ; $L_2 = G_1H_2$

Maison's Gain Formula: $T \cdot F = \frac{P_1 \Delta_1}{C_1 + C_2} = \frac{G_1}{C_1 + C_2}$

Maisonis Gain Formula:
$$T.F = \frac{P_1 \Delta_1}{\Delta} = \frac{q_1}{1 - q_1[H_1 + H_2]}$$

$$N(s) = n_5 8^5 + n_4 8^4 + n_3 8^3 + n_2 8^2 + n_1 8' + n_0.$$

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$$N(s) = 8^{5} \left[RT_{ev}T_{r}T_{c}T_{g} \right] + 8^{4} \left[R\left[T_{g}T_{r}T_{ev} + T_{r}T_{c}T_{ev} + T_{c}T_{g}T_{ev} + T_{r}T_{c}T_{g} \right] + 8^{3} \left[R\left[T_{g}T_{ev} + T_{r}T_{ev} + T_{c}T_{ev} + T_{g}T_{r} + T_{r}T_{c} + T_{c}T_{g} \right] \right] + 8^{2} \left[R\left[T_{r} + T_{g} + T_{c} + T_{ev} \right] \right] + 8 \left[R \right].$$

$$\begin{split} P(s) &= P_{6} s^{4} + P_{5} s^{5} + P_{4} s^{4} + P_{3} s^{3} + P_{2} s^{2} + P_{1} s^{4} + P_{6} \\ P(s) &= s^{6} \left[RMT_{1}T_{1}T_{2}T_{ev} \right] + s^{5} \left[RT_{ev} \left[DT_{1}T_{2}T_{1} + MT_{3}T_{v} + MT_{1}T_{1} + MT_{1}T_{2} \right] + RMT_{1}T_{2}T_{3} \right] \\ &+ s^{4} \left[RT_{ev} M \left[T_{1} + T_{c} + T_{q} \right] + RM \left[T_{3}T_{1} + T_{v}T_{c} + T_{c}T_{3} \right] + T_{ev} RD \left[T_{3}T_{1} + T_{v}T_{c} + T_{c}T_{3} \right] + RD \left[T_{1}T_{c} + T_{c}T_{3} \right] + RD \left[T_{1}T_{c} + T_{c}T_{3} \right] + RD \left[T_{1}T_{c} + T_{c}T_{3} \right] \\ &+ T_{3}T_{v} + T_{c}T_{ev} + T_{v}T_{ev} + T_{3}T_{ev} + T_{ev}F_{p}T_{v} + F_{p}T_{v} + F_{p}T_{v$$