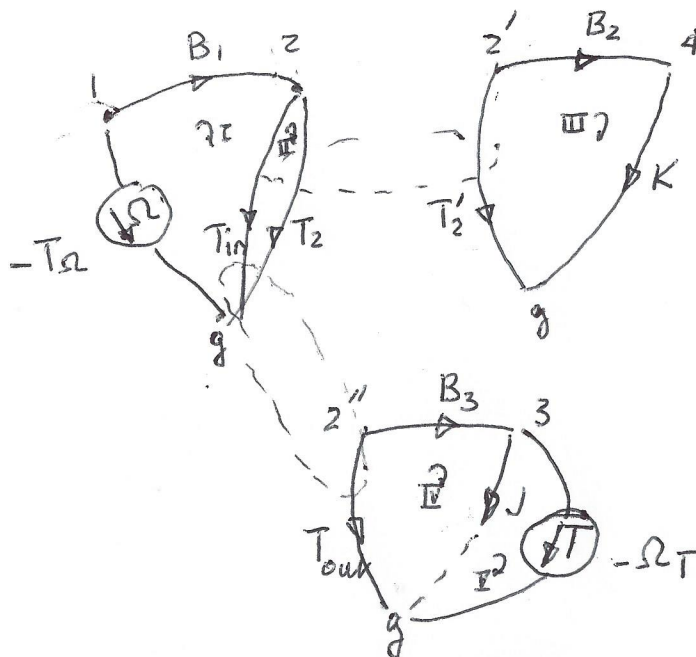




$$b=11$$

$$s=2$$

$$p=3$$

$$\underline{b-s=9}$$

$$\underline{b-(n-p)=5 \text{ (ACROSS VAR)}}$$

$$\underline{n-p=6 \text{ (THRU VAR)}}$$

ELEMENTAL

$$\underline{b-s=11-2=9}$$

$$T_{B_1} = B_1 \Omega_{12}$$

$$T_{B_2} = B_2 \Omega_{2'4}$$

$$\frac{dT_K}{dt} = K \Omega_{4g}$$

$$T_{B_3} = B_3 \Omega_{2''3}$$

$$T_J = J \frac{d\Omega_{3g}}{dt}$$

$$\frac{\Omega_{2g}}{\Omega_{2'g}} = \frac{-T_2'}{T_2} = n_1 = 1$$

$$\frac{\Omega_{2g}}{\Omega_{2''g}} = \frac{-T_{out}}{T_{in}} = n_2 = 1$$

VERTEX/NODE

$$\underline{n-p=9-3=6}$$

$$@1 \quad T_{B_1} + (-T_\Omega) = 0$$

$$@2 \quad T_{B_1} = T_{in} + T_2$$

$$@2' \quad T_{B_2} + T_2' = 0$$

$$@4 \quad T_{B_2} = T_K$$

$$@2'' \quad T_{B_3} + T_{out} = 0$$

$$@3: \quad T_{B_3} = T_J + T$$

PATH/LOOP

$$\underline{b-(n-p)=11-6=5}$$

$$\text{I: } \Omega_{12} + \Omega_{2g} - \Omega_\Omega = 0$$

$$\text{II: } \Omega_{2g} - \Omega_{2'g} = 0$$

$$\text{III: } \Omega_{2'4} + \Omega_{4g} - \Omega_{2'g} = 0$$

$$\text{IV: } \Omega_{2''3} + \Omega_{3g} - \Omega_{2''g} = 0$$

$$\text{V: } -\Omega_T - \Omega_{3g} = 0$$