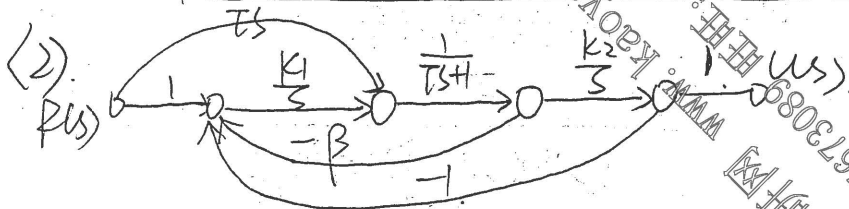
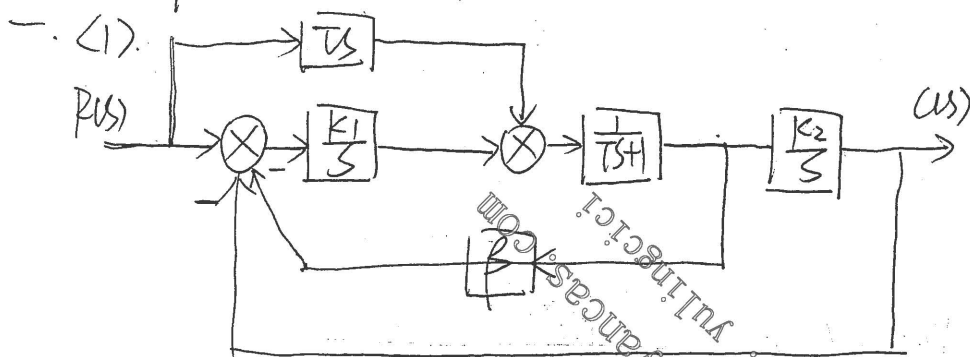


学长笔记、辅导班课程,



$$P_1 = \frac{K_2 TS}{s(TS+1)}$$

$$P_2 = \frac{K_1 K_2}{s^2(TS+1)}$$

$$\Delta = 1 + \frac{\beta K_1}{s(TS+1)} + \frac{K_1 K_2}{s^2(TS+1)}$$

$$\Delta_1 = 1$$

$$\Delta_2 = 1$$

$$\text{则 } \Phi(s) = \frac{\frac{K_2 TS}{s(TS+1)} + \frac{K_1 K_2}{s^2(TS+1)}}{1 + \frac{\beta K_1}{s(TS+1)} + \frac{K_1 K_2}{s^2(TS+1)}}$$

$$= \frac{K_2 TS^2 + K_1 K_2}{TS^3 + s^2 K_1 \beta s + K_1 K_2}$$