HW-1 190410102 自动似闭上 方充

1.
$$G_0(2) = 2\left[\frac{k}{5} \frac{1-e^{-TS}}{5}\right] = (1-2^{-1})2\left[\frac{k}{5^2}\right]$$

= $(1-2^{-1})\frac{kT^2}{(2^{-1})^2} = \frac{kT^{2^{-1}}}{1-2^{-1}}$

$$R(2) = R_1 \cdot \frac{1}{1-2^{-1}} + R_2 \cdot \frac{T_{2}^{-1}}{(1-2^{-1})^2} = \frac{R_1 + (R_2T - R_1) \cdot 2^{-1}}{(1-2^{-1})^2}$$

$$\Phi(2) = (1-2^{-1})^2$$
 $\Phi(2) = 1-\Phi(2) = 22^{-1}-2^2$

$$D(\frac{1}{2}) = \frac{Q(\frac{1}{2})}{G_0(\frac{1}{2})} = \frac{2-27}{kT(1-27)} = \frac{2-27}{k(1-27)}$$