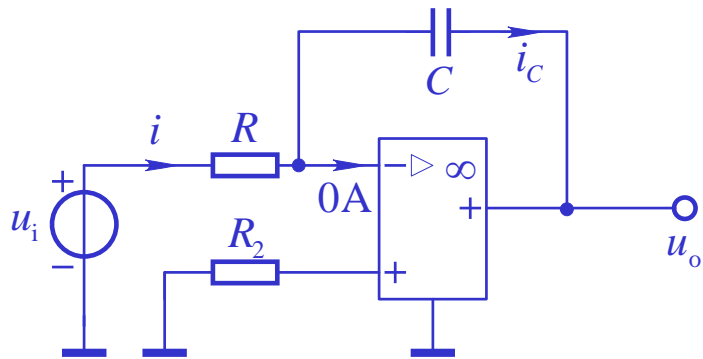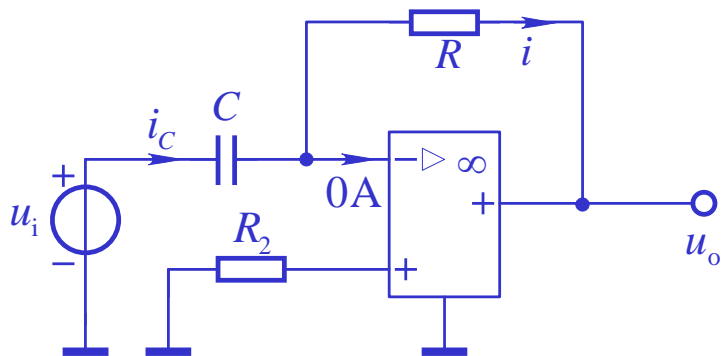## 5. 积分运算电路

$$i = i_C = \frac{u_i}{R}$$

$$u_o = -u_C = -\frac{1}{C}\int i_C \mathrm{d}t = -\frac{1}{RC}\int u_i \mathrm{d}t$$

6. 微分运算电路

$$i_C = i = C\frac{\mathrm{d}u_\mathrm{i}}{\mathrm{d}t}$$

$$u_\mathrm{o} = -Ri = -RC\frac{\mathrm{d}u_\mathrm{i}}{\mathrm{d}t}$$