含运算放大器电路的分析



6.含运放电路的节点电压分析法

$$\left(\frac{1}{6k\Omega} + \frac{1}{6k\Omega} + \frac{1}{10k\Omega} \right) U_{n1} - \frac{1}{10k\Omega} U_{n3} = \frac{2V}{6k\Omega}$$

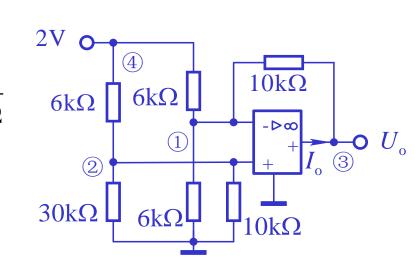
$$\left(\frac{1}{6k\Omega} + \frac{1}{30k\Omega} + \frac{1}{10k\Omega} \right) U_{n2} = \frac{2V}{6k\Omega}$$

$$-\frac{1}{10k\Omega} U_{n1} + \frac{1}{10k\Omega} U_{n3} - I_{o} = 0$$

$$U_{\rm n1} = U_{\rm n2}$$

$$U_{n1} = U_{n2} = (10/9)V$$

$$U_{n3} = (40/27)V$$



如不求此输出电流,则无须对输出节点列KCL方程。