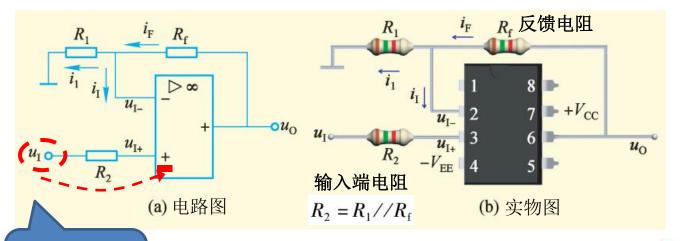


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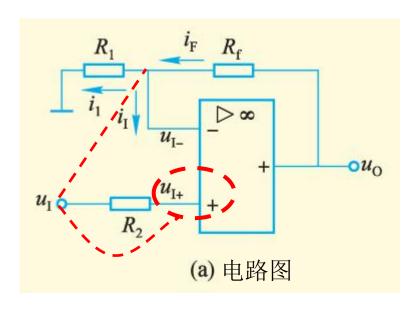
-电路组成



将输入信号加 到集成运放的 同相输入端



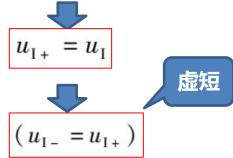
电压放大倍数 A_u

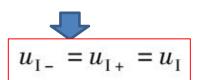


理想运放虚断 $(i_I = 0)$



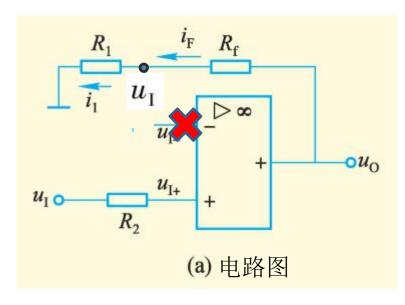
流过 R_2 的电流为零

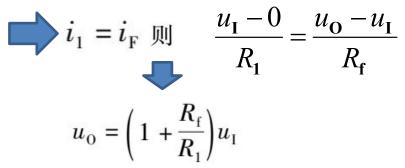






电压放大倍数A₄





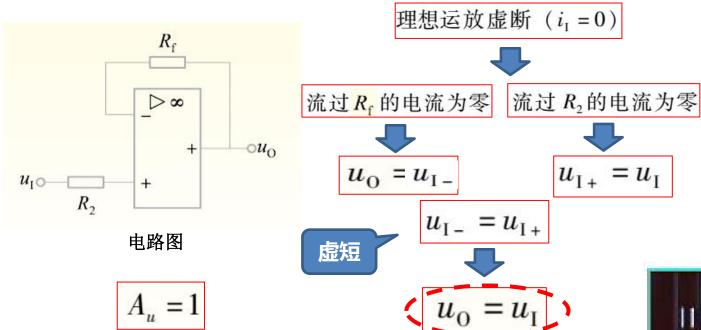
同相输入放大电路的电压放大倍数为

$$A_u = \frac{u_0}{u_1} = \left(1 + \frac{R_f}{R_1}\right)$$



电压跟随器

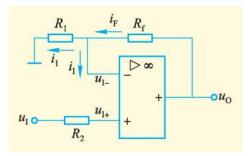
特例



该电路具有高的输入阻抗和低的输出阻抗,故应用极为广泛,常作为阻抗变换器或缓冲器。



1.电路组成



2.电压放大倍数

$$A_u = \frac{u_0}{u_1} = \left(1 + \frac{R_f}{R_1}\right)$$

3.电压跟随器

$$A_u = 1$$

$$u_0 = u_I$$

