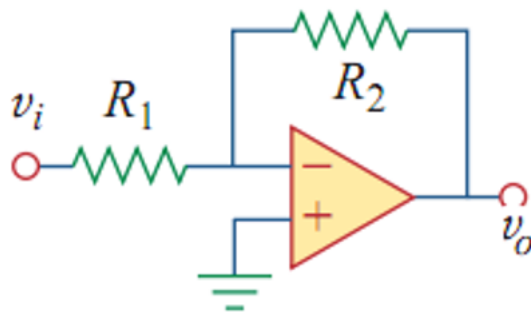


# 模电知识点汇总

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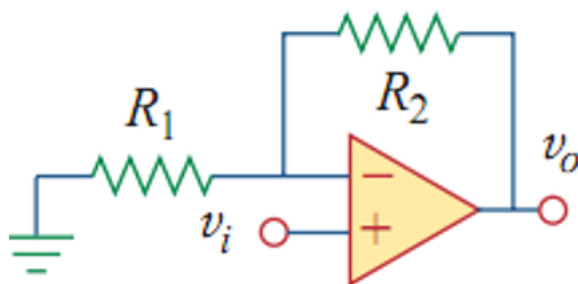
## 1 Op-Amp

五种运放模型的汇总：



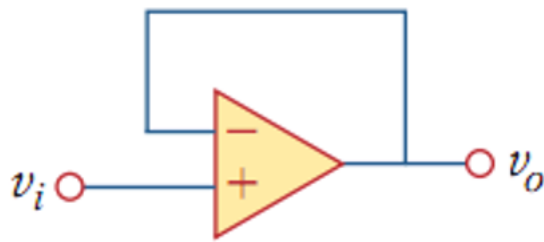
$$v_o = -\frac{R_2}{R_1}v_i$$

Figure 1: Inverting Amplifier



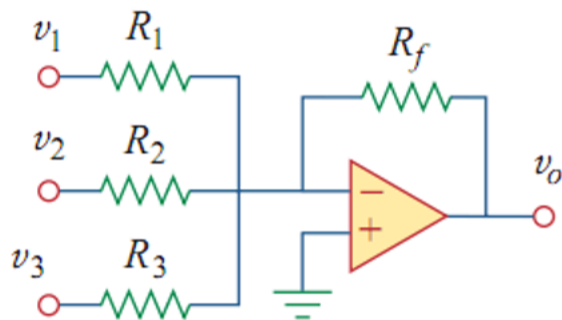
$$v_o = \left(1 + \frac{R_2}{R_1}\right)v_i$$

Figure 2: Inverting Amplifier



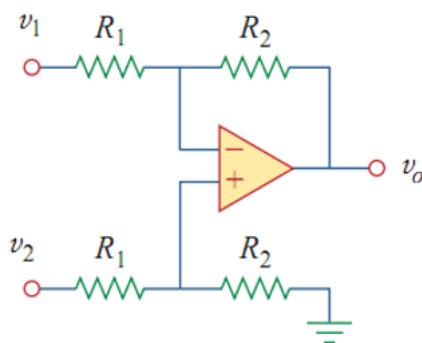
$$v_o = v_i$$

Figure 3: Inverting Amplifier



$$v_o = -\left(\frac{R_f}{R_1}v_1 + \frac{R_f}{R_2}v_2 + \frac{R_f}{R_3}v_3\right)$$

Figure 4: Inverting Amplifier



$$v_o = \frac{R_2}{R_1}(v_2 - v_1)$$

Figure 5: Inverting Amplifier