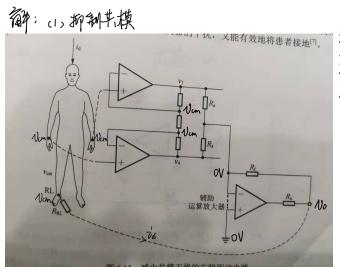
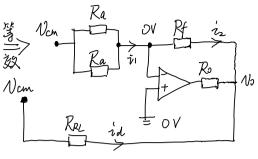
1.设计一个如下图的右腿驱动电路,标出所有电阻数值,对于流过身体的50Hz的1微安电流,共模电压必须减小到2mV。当放大器在±12V饱和时,电路流过电流不应大于5微安。



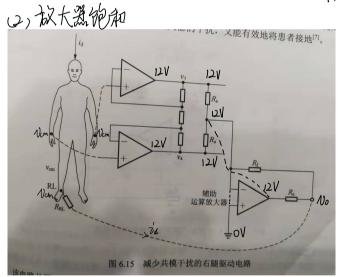


$$\frac{V_{cm}}{Ra/2} = \frac{O - N_0}{R} O$$

$$V_{cm} - V_0 = idR_1 O$$

$$\frac{V_{cm}}{V_{cm}} = \frac{idR_1}{1 + 2K}$$

 $E_{F1}: i_{d} = |\mu A|, N_{cm} \leq 2mV \Rightarrow \frac{R_{RL}}{|+2-\frac{R_{F}}{R_{a}}|} \times |0^{-b}| \leq 2 \times |0^{-3}| (V)$



$$Req = \frac{R_0 R_f}{R_0 + R_f} \Theta$$

$$\frac{V_{um} - 12}{R_{RL} + Req} = \dot{v}_d \leq 5\mu A \Theta$$

$$RV_{um} = 2 \mu V \text{ ($\dot{\mathbf{M}}$\dot{\mathbf{b}}$)}$$

$$\Theta \approx \frac{208}{R_{RL} + Req} \leq 5 \times 10^{-6} \text{ B} \text{)}$$

- ·由于 Ra ~ 2.5ks , 犹x (A) 礼解结 尽 > 61.25 Ksl Rel ~ 100 Ksl

$$\frac{100}{11.7 \text{ VRf}} \leq 2$$

$$98 \leq \frac{4}{1.5} \text{ Rf}$$