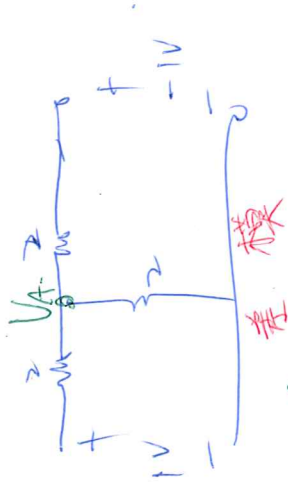


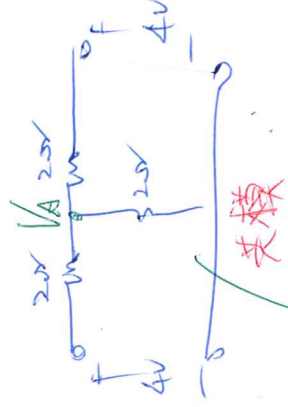
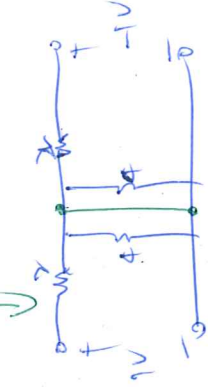
大完全对称电路



$$V_A - \frac{1}{2} \left(\frac{V_A}{2} + \frac{V_A + 1}{2} \right) = 0$$

$$V_A = 0V$$

等效电路

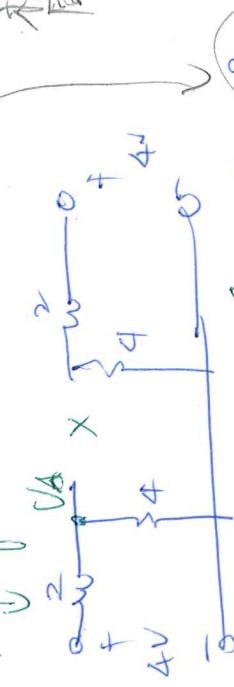


$$\frac{V_A - 4}{2} + \frac{V_A}{2} + \frac{V_A - 4}{2} = 0$$

$$3V_A - 8 = 0$$

$$V_A = \frac{8}{3}$$

等效电路



$$V_A = 4 \times \frac{4}{2+4} = \frac{16}{6} = \frac{8}{3}V$$

⇒ 结论：左右电桥电路之分析，*differential-mode signal, V_d* 差模信号大小相同
可将 signal 拆成 [共模信号：同相位且大小相同]
common signal, V_c

distinction

$$V_c = \frac{V_1 + V_2}{2}$$

$$V_d = V_1 - V_2$$

$$\begin{cases} V_1 = V_c + \frac{V_d}{2} \\ V_2 = V_c - \frac{V_d}{2} \end{cases}$$

$$A_c = \frac{V_{o1}}{V_c}$$

$$A_d = \frac{V_{o1}}{V_d}$$

$$V_o = A_d V_d + A_c V_c$$