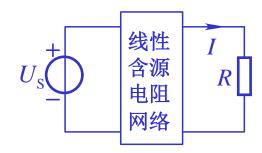
## 叠加定理例题



例5 图示电路,当  $U_S = 10V$  时 I = 6A;  $U_S = 15V$  时 I = 7A; 求 I = 10A 时  $U_S = ?$ 



解:根据齐性定理和叠加定理

$$I = I' + I'' = I' + kU_{S}$$

$$\begin{cases} 6A = I' + k \times 10V \\ 7A = I' + k \times 15V \end{cases}$$

$$\begin{cases} k = 0.2S \\ I' = 4A \\ I = 4A + 0.2S \times U_{S} \end{cases}$$
当  $I = 10A$  得  $U_{S} = 30V$