

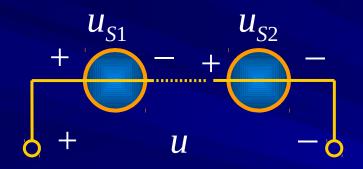
## 2.4 电压源、电流源的串联和并联

1. 理想电压源的串联和并联

注意参考方向



$$u = u_{s1} + u_{s2} = \sum u_{sk}$$

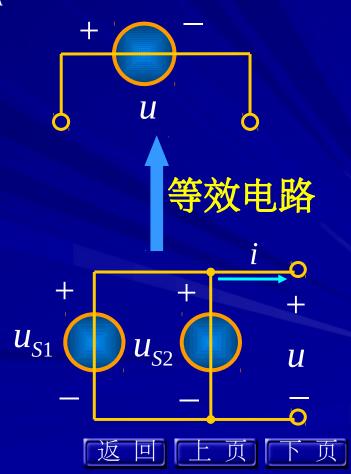


等效电路

②并联

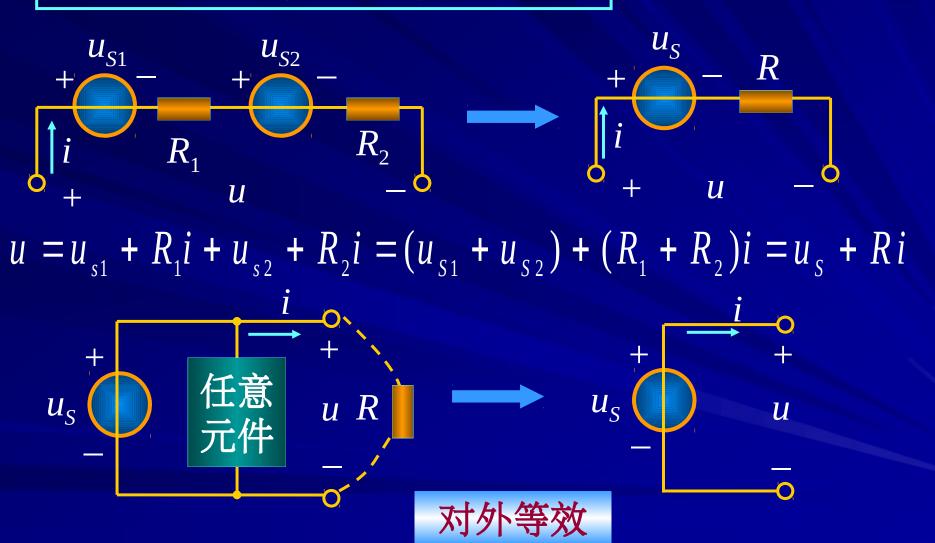
$$u = u_{s1} = u_{s2}$$

注意相同电压源才能并联, 电源中的电流不确定。





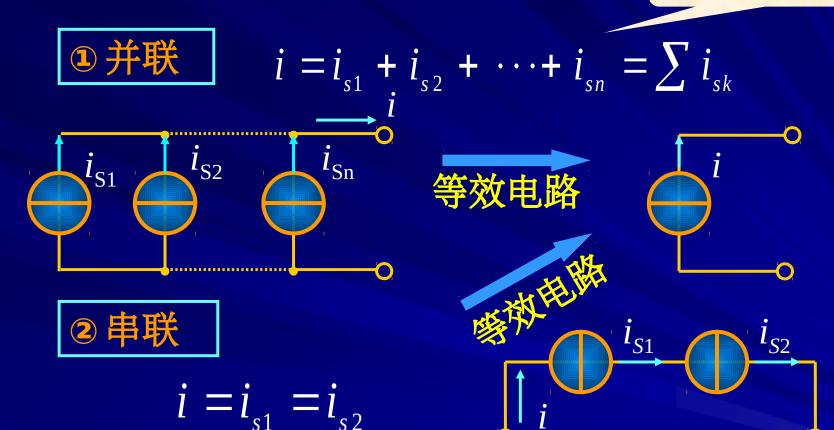
## ③电压源与支路的串、并联等效



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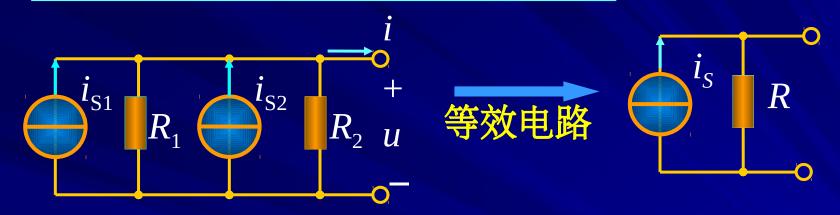
注意参考方向



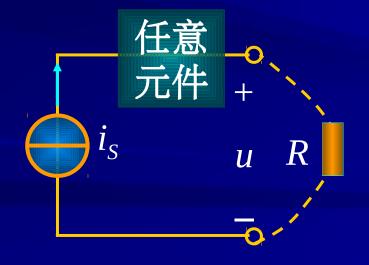
注意 相同的理想电流源才能串联 , 每个电流源的端电压不能确定。



## 3. 电流源与支路的串、并联等效

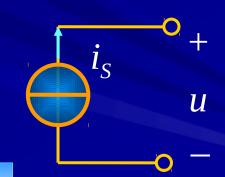


$$i = i_{s1} - u/R_1 + i_{s2} - u/R_2 = i_{s1} + i_{s2} - (1/R_1 + 1/R_2)u = i_s - u/R$$



## 等效电路

对外等效



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