

# Download File PDF Solution For In Engineering Circuit Analysis

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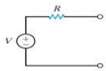
#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

2.36 A student needs a 15-V voltage source for research. She has been able to locate two power supplies, a 10-V supply and a 5-V supply. The equivalent circuits for the two supplies are shown in Fig. P2.36.

- (a) Draw an equivalent circuit for the effective 15-V supply.
- (b) If she can tolerate a 0.5-V deviation from 15 V, what is the maximum current change the combined supply can satisfy?

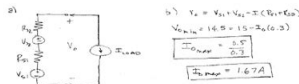


Voltage	5 V	10 V
Resistance	0.25 $\Omega$	0.05 $\Omega$

Figure P2.36

SOLUTION:

2.36  $V_{s1} = 5\text{ V}$ ,  $R_{s1} = 0.25\ \Omega$ ,  $V_{s2} = 10\text{ V}$ ,  $R_{s2} = 0.05\ \Omega$ .



b)  $V_s = V_{s1} + V_{s2} = 5 + 10 = 15\text{ V}$   
 $V_{s1} = 14.5 = 15 - I(0.25)$   
 $I = \frac{0.5}{0.25} = 2\text{ A}$   
 $I_{\text{max}} = 1.67\text{ A}$

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