

# Electronic Principles Eighth Edition

## Chapter 1 Introduction

### SELF-TEST

- |      |       |       |       |
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### JOB INTERVIEW QUESTIONS

*Note:* The text and illustrations cover many of the job interview questions in detail. An answer is given to job interview questions only when the text has insufficient information.

- It depends on how accurate your calculations need to be. If an accuracy of 1 percent is adequate, you should include the source resistance whenever it is greater than 1 percent of the load resistance.
- Measure the open-load voltage to get the Thevenin voltage  $V_{TH}$ . To get the Thevenin resistance, reduce all sources to zero and measure the resistance between the A-B terminals to get  $R_{TH}$ . If this is not possible, measure the voltage  $V_L$  across a load resistor and calculate the load current  $I_L$ . Then divide  $V_{TH} - V_L$  by  $I_L$  to get  $R_{TH}$ .
- The advantage of a 50- $\Omega$  voltage source over a 600- $\Omega$  voltage source is the ability to be a stiff voltage source to a lower value resistance load. The load must be 100 greater than the internal resistance in order for the voltage source to be considered stiff.
- The expression *cold-cranking amperes* refers to the amount of current a car battery can deliver in freezing weather when it is needed most. What limits actual current is the Thevenin resistance caused by chemical and physical parameters inside the battery, not to mention the quality of the connections outside.
- It means that the load resistance is not large compared to the Thevenin resistance, so that a large load current exists.
- Ideal. Because troubles usually produce large changes in voltage and current, so that the ideal approximation is adequate for most troubles.
- You should infer nothing from a reading that is only 5 percent from the ideal value. Actual circuit troubles will usually cause large changes in circuit voltages. Small changes can result from component variations that are still within the allowable tolerance.
- Either may be able to simplify the analysis, save time when calculating load current for several load resistances, and give

us more insight into how changes in load resistance affect the load voltage.

- It is usually easy to measure open-circuit voltage and shorted-load current. By using a load resistor and measuring voltage under load, it is easy to calculate the Thevenin or Norton resistance.

### PROBLEMS

#### 1-1. Given:

$$V = 12 \text{ V}$$

$$R_L = 0.1 \text{ } \Omega$$

*Solution:*

$$R_L = 100m\Omega$$

$$R_L = 100/0.1 \text{ } \Omega$$

$$R_L = 10 \text{ } \Omega$$

*Answer:* The voltage source will appear stiff for values of load resistance of  $\geq 10 \text{ } \Omega$ .

#### 1-2. Given:

$$R_{Lmax} = 270 \text{ } \Omega$$

$$R_{Lmin} = 100 \text{ } \Omega$$

*Solution:*

$$R_L < 0.01 R_L \quad (\text{Eq. 1-1})$$

$$R_L < 0.01(270 \text{ } \Omega)$$

$$R_L < 2.7 \text{ } \Omega$$

*Answer:* The largest internal resistance the source can have is 2.7  $\Omega$ .

#### 1-3. Given: $R_L = 50 \text{ } \Omega$

*Solution:*

$$R_L = 100m\Omega$$

$$R_L = 100(50 \text{ } \Omega)$$

$$R_L = 5 \text{ } \Omega$$

*Answer:* The function generator will appear stiff for values of load resistance of  $\geq 5 \text{ } \Omega$ .

#### 1-4. Given: $R_L = 0.04 \text{ } \Omega$

*Solution:*

$$R_L = 100m\Omega$$

$$R_L = 100(0.04 \text{ } \Omega)$$

$$R_L = 4 \text{ } \Omega$$

*Answer:* The car battery will appear stiff for values of load resistance of  $\geq 4 \text{ } \Omega$ .

# Electronic Principles 7th Edition Solution

**Albert Paul Malvino, David J. Bates**



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