

the (simplest) circuit, what output waveform is produced? What is its peak amplitude? Calculate the three mean (RMS) values of the output waveform in Fig. 2.12(b). Finally, extend the circuit (shown in Fig. 2.12(b)) such that the maximum value of the output sine wave, its peak value, is equal to twice the rms output voltage and its frequency.

**2.124** Using an ideal op amp, design a differentiation circuit for which the time constant is  $10^{-3}$  s using a closed capacitor. What are the gain and phase shifts (react) for this circuit at low, mid, and high frequencies? (A low-frequency corner or cutoff frequency of the gain magnitude at high frequencies is  $100$  V/V. What is the reactance? Is it the capacitor? What gain and phase shift result at  $50$  kHz the corner frequency?)

**2.125** Figure P2.125 shows a circuit that performs the high-pass single-time-constant function. Such a circuit is known as a first-order high-pass active filter. Derive the transfer function and show that the high-frequency gain is  $(1/R_2)(R_1/R_3)$  and the  $3$ -dB frequency  $\omega_3 = 1/(R_2C_1)$ . Design the circuit to obtain a high-frequency gain magnitude of  $10$  V/V, a high-frequency phase shift of  $0^\circ$ , and a  $3$ -dB frequency of  $10$  kHz. What frequency does the magnitude of the transfer function exhibit a unity?



FIGURE P2.125

**2.126** Derive the transfer function of the circuit in Fig. P2.126 (do an ideal op-amp) and show that it can be written as follows:

$$\frac{V_2}{V_1} = \frac{1 + (R_2/R_1)(C_1/s)}{1 + (R_2/R_1)(C_1/s) + (R_2/R_1)(C_1/s)^2}$$

where  $\omega_1 = 1/(R_1C_1)$  and  $\omega_2 = 1/(R_2C_1)$ . Assuming that the circuit is designed such that  $\omega_1 \gg \omega_2$ , find approximate expressions for the transfer function in the following frequency regions:

- $\omega \ll \omega_1$  V/V
- $\omega_1 \ll \omega \ll \omega_2$  V/V
- $\omega \gg \omega_2$  V/V

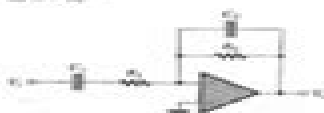


FIGURE P2.126

Use these approximations to sketch a Bode plot for the magnitude response. Assume that the corner frequency of an amplifier whose gain rolls off at low frequencies and at the corner of a high-pass RC network, and at the high-frequency end in the corner of a low-pass RC network. Design the circuit to provide a gain of  $10$  V/V in the "middle frequency range," a low-frequency  $3$ -dB point at  $100$  Hz, a high-frequency  $3$ -dB point at  $10$  kHz, and a gain magnitude at  $10$  Hz of  $1$  V/V.

Our study of modeling the diode characteristics will lay the foundation for our study of modeling nonlinear operations in the next two chapters.

Of the many applications of diodes, their use in the design of nonlinear (or half-wave) rectifiers is the most common. Therefore we shall study nonlinear circuits (in some detail) and finally look at a number of other diode applications. Further nonlinear circuits that utilize diodes and other devices will be found throughout the book, but particularly in Chapter 5.5.

To understand the origin of the diode terminal characteristics, we consider its physical operation. Our study of the physical operation of the p-n junction and of the basic concepts of semiconductor physics is intended to provide a foundation for understanding not only the characteristics of junction diodes but also those of the field-effect transistors, studied in the next chapter, and the bipolar junction transistors, studied in Chapter 5.

Although most of this chapter is concerned with the study of silicon p-n junction diodes, we briefly mention some specialized diode types, including the photodiode and the light-emitting diode. The chapter concludes with a description of the diode model utilized in the SPICE circuit simulation program. We also present a design example that illustrates the use of SPICE simulation.

## 3.1 THE IDEAL DIODE

### 3.1.1 Current-Voltage Characteristics

The ideal diode may be considered the most fundamental nonlinear circuit element. It is a two-terminal device having the circuit symbol of Fig. 3.1(a) and the  $i$ - $v$  characteristic shown in Fig. 3.1(b). The terminal characteristics of the ideal diode can be interpreted as follows: (1)



FIGURE 3.1 The ideal diode, its circuit symbol, and its  $i$ - $v$  characteristic. (a) Symbolic circuit symbol, (b) symbolic circuit symbol, (c) symbolic circuit symbol, (d) symbolic circuit symbol.

## Diodes

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### INTRODUCTION

In the previous chapter we dealt almost entirely with linear circuits, any nonlinearity, such as that introduced by nonlinear output operations, was considered a problem to be solved by the circuit designer. However, there are many other signal-processing functions that can be implemented only by nonlinear circuits. Examples include the generation of dc voltages from the ac power supply and the generation of signals of various waveforms (e.g., square waves, sawtooth, etc.). Also, digital logic and memory circuits constitute a special class of nonlinear circuits.

The simplest and most fundamental nonlinear circuit element is the diode. Just like a resistor, the diode has two terminals that define the device, which has a linear (straight-line) relationship between the current flowing through it and the voltage appearing across it. The diode has a nonlinear  $i$ - $v$  characteristic.

This chapter is concerned with the study of diodes. In order to understand the operation of the diode, we begin with a review of the basic physics of the p-n junction. We then introduce the diode junction diode, explain its terminal characteristics, and provide examples for the analysis of diode circuits. The latter part involves the important subject of device modeling.

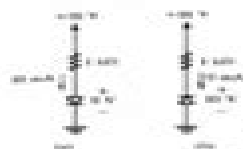


FIGURE 3.2 The two modes of operation of an ideal diode and the use of an external circuit to force the forward current (a) and the reverse voltage (b).

negative voltage (relative to the reference direction indicated in Fig. 3.1(a)) is applied to the diode, no current flows and the diode behaves as an open circuit (Fig. 3.1(b)). When operated in this mode we say the diode is **reverse-biased**, or operated in the **reverse direction**. An ideal diode has zero current when operated in the reverse direction and is said to be **cut off**, or **open**.

On the other hand, if a positive voltage (relative to the reference direction indicated in Fig. 3.1(a)) is applied to the ideal diode, zero voltage drop appears across the diode. In other words, the ideal diode behaves as a short circuit in the forward direction (Fig. 3.1(a)). It passes any current with zero voltage drop. A **forward-biased** diode is said to be **conducting**, or **open**.

From the above description it should be noted that the terminal circuit must be designed to force the forward or reverse conducting diode, and the source voltage across a small diode, is predetermined values. Figure 3.2 shows two diode circuits that illustrate this point. In the circuit of Fig. 3.2(a) the diode is obviously conducting. Thus the voltage drop will be zero, and the current through it will be determined by the  $10$  V supply and the  $1$  k $\Omega$  resistor in series. The diode is also clearly cut off, and when the current will be zero, which is true because the entire  $10$  V supply will appear across the diode.

The positive terminal of the diode is called the **anode** and the negative terminal the **cathode**, a statement from the sign of conventional diodes. The  $i$ - $v$  characteristic of the ideal diode (conducting in one direction and not in the other) should explain the choice of the arrow-like circuit symbol.

As should be evident from the preceding description, the  $i$ - $v$  characteristic of the ideal diode is highly nonlinear, although it is very simple to represent. They are as  $10^6$  times smaller. A nonlinear curve that consists of straight-line segments is said to be **piecewise linear**. If a device having a piecewise-linear characteristic is used in a particular application in such a way that the signal across it remains always only one of the linear segments, then the device can be considered a linear circuit element as far as that particular circuit application is concerned. On the other hand, if signals swing back and forth on more of the linear portions in the characteristic, linear analysis is no longer possible.

### 3.1.2 A Simple Application: The Rectifier

A fundamental application of the diode, one that makes use of its inherently nonlinear  $i$ - $v$  curve, is the rectifier circuit shown in Fig. 3.3(a). The circuit consists of the series connection

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