

the (simplest) circuit, what output waveform is produced? What is its peak amplitude? Calculate this three ways: first, use the circuit formula in Fig. 2.104b; second, use the circuit formula in Fig. 2.104a; third, use the maximum value of the input sine wave. In each case, establish a value for the peak output voltage and its location.

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 is defined as the gain magnitude at high frequencies is -20 dB/decade. What is the constant? Is it the frequency? What gain and phase shift result at 50 Hz, 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 $\omega_c = 1/(R_2C)$. Design the circuit to provide a high-frequency gain constant of 10 dB, a high-frequency point of 100 rad/s, and a -3 dB frequency of 10 rad/s. Compute the magnitude of the transfer function when $\omega = 10$ rad/s.



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:

$$\frac{V_o}{V_i} = \frac{1 + (R_2/R_1)(1 + R_3/R_4)}{1 + (R_2/R_1)(1 + R_3/R_4) + (R_2/R_1)(R_3/R_4)}$$

where $\omega_c = 1/(R_2C)$ and $\omega_p = 1/(R_3C)$. Assuming that the circuit is designed such that $\omega_c \gg \omega_p$, find approximate expressions for the transfer function in the following frequency regions:

- (a) $\omega \ll \omega_c$
- (b) $\omega_c \ll \omega \ll \omega_p$
- (c) $\omega \gg \omega_p$

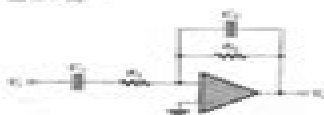


FIGURE P2.126

Use these approximations to sketch a Bode plot for the magnitude response. Assume that the circuit performs as an amplifier whose gain rolls off at the low frequency and at the corner of a high-pass Bode network, and at the high frequency roll in the corner of a low-pass Bode network. Design the circuit to provide a gain of 10 dB in the "middle frequency range," a low-frequency -3 dB point at 100 rad/s, a high-frequency -20 dB point at 10 rad/s, and a low-pass corner at 10 rad/s of 1 dB.

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

Of the many applications of diodes, their use in the design of nonlinear circuits (which concern us in this text) is the most extensive. Therefore we shall study nonlinear circuits (in some detail) and briefly 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.

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. 3.1a and the $i-v$ characteristic shown in Fig. 3.1b. 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 (the negative slope is the reverse direction, all operations listed in the forward direction).

Diodes

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INTRODUCTION

In the previous chapter we dealt almost entirely with linear circuits, very nonlinearly, with no first-order nonlinear circuit elements, 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 discussion of the physical operation of the diode. 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.

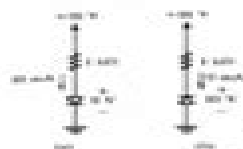


FIGURE 3.2 The two modes of operation of an ideal diode and the use of an external circuit to force the forward current (a) and the reverse voltage (b).

negative voltage (relative to the reference direction indicated in Fig. 3.1a) is applied to the diode, no current flows and the diode behaves as an open circuit (Fig. 3.1c). When operated in this mode we say the diode is **reverse-biased**, as represented 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. 3.1a) 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. 3.1d). 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 external circuit must be designed to force the forward current in conducting diodes, and the source voltage across a cut-off diode is predetermined value. 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 Ω resistor in series with it. The diode is also **open** in Fig. 3.2(b) as obviously can be seen, and then the current will be zero, which is true because that 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**, as mentioned 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. The negative slope of the $i-v$ characteristic is a nonlinear curve that consists of straight-line segments in each of the linear regions. 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 within only one of the linear regions, 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 over the break points 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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web this international standard covers the calibration of force proving instruments used for the static verification of uniaxial testing machines e g tension compression testing machines and describes a procedure for classifying

iso 376 calibration standard - Jun 06 2023

web iso 376 calibration standard this standard has been elaborated within the scope of the normalization of metallic materials and is entitled calibration of force measurement instruments used for the verification of uniaxial testing machines

iso iso 376 1999 metallic materials calibration of force - Jul 27 2022

web iso iso 376 1999 metallic materials calibration of force proving instruments used for the verification of uniaxial testing machines ics 77 77 040 77 040 10

guidelines on the uncertainty of force measurements - Jan 01 2023

web the calibration of a force measuring instrument in an fsm will generally be carried out in accordance with a documented

procedure such as iso 376 2 and the uncertainty of the calibration results will be dependent on the machine's cmc as well as on the

[pdf iso 376 calibration uncertainty researchgate](#) - Aug 28 2022

web apr 1 1999 a method is described intended for distributed calibration of a probe microscope scanner consisting in a search for a net of local calibration coefficients lccs in the process of automatic

iso 376 2011 metallic materials calibration of force proving - Oct 30 2022

web iso 376 2011 specifies a method for the calibration of force proving instruments used for the static verification of uniaxial testing machines e g tension compression testing machines and describes a procedure for the classification of these instruments

[the load cell calibration standard iso 376 hbk](#) - Nov 30 2022

web aug 29 2019 in the world of reference force transducers force transfer standards din en iso 376 is the globally accepted standard it applies to master sensors as well as many industrial applications while it is more complex than a working standard or dkd r 3 3 calibration it is also much more accurate and often required

iso 376 2004 metallic materials calibration of force proving - Mar 03 2023

web abstract iso 376 2004 covers the calibration of force proving instruments used for the static verification of uniaxial testing machines e g tension compression testing machines and describes a procedure for classifying these instruments

iso 376 2011 metallic materials calibration of force proving in - Sep 28 2022

web jun 7 2011 iso 376 2011 specifies a method for the calibration of force proving instruments used for the static verification of uniaxial testing machines e g tension compression testing machines and describes a procedure for the classification of these instruments

[iso 376 2011 metallic materials calibration of force proving](#) - Oct 10 2023

web iso 376 2011 specifies a method for the calibration of force proving instruments used for the static verification of uniaxial testing machines e g tension compression testing machines and describes a procedure for the classification of these instruments

iso 376 iteh standards - Apr 04 2023

web iso 376 was prepared by technical committee iso tc 164 mechanical testing of metals subcommittee sc 1 uniaxial testing this fourth edition cancels and replaces the third edition iso 376 2004 which has been technically revised

new iso 376 2011 standard for calibrating force transducers - Sep 09 2023

web the international iso 376 2011 standard for calibrating force transducers has been effective since january 1 2012 what are the implications for you as a user to make this conversion as convenient as possible for our customers we have

summarized the main changes for you table 1 gives an overview

understanding iso 376 morehouse instrument company inc - May 25 2022

web mar 9 2018 the iso 376 standard is used worldwide and it is a requirement for anyone calibrating in accordance with iso 7500 if iso 7500 is the requirement then calibration needs to be performed in accordance with iso 376 on the force proving instruments used to certify the tensile machine

bs en iso 376 2011 metallic materials calibration of force - Jun 25 2022

web jun 30 2011 bs en iso 376 2011 this standard bs en iso 376 2011 metallic materials calibration of force proving instruments used for the verification of uniaxial testing machines is classified in these ics categories 17 100 measurement of force weight and pressure 77 040 10 mechanical testing of metals

international iso standard 6507 3 - Feb 19 2022

web indicated below members of iec and iso maintain registers of currently valid international standards iso 376 1 metallic materials calibration of force proving instruments used for the verification of uniaxial testing machines iso 468 1982 surface roughness parameters their values and general rules for specifying requirements

iso376 standard reference force transducers - Mar 23 2022

web iso 376 calibration standard covers the calibration of standard force measurement instruments used for the static verification of uniaxial testing machines such as tension compression testing machines and describes classifying procedures for

en iso 376 standardına göre kuvvet Ölçme cihazlarının - May 05 2023

web anahtar kelimeler en iso 376 kuvvet kalibrasyonu Ölçüm belirsizliği an investigation and calculation of uncertainty in calibration of force proving instruments according to en iso 376 standard abstract in this study it has been focused on calibration of force proving instruments concerning to en iso 376 standard