



Appendix C

PSPICE, MULTISIM, AND MATHCAD

PSPICE 10.0

The PSpice software package used throughout this text is derived from programs developed at the University of California at Berkeley during the early 1970s. SPICE is an acronym for Simulation Program with Integrated Circuit Emphasis. Although a number of companies have customized SPICE for their particular use, Cadence Design Systems offers both a commercial and a demo version of OrCAD. The commercial or professional versions that engineering companies use can be quite expensive, so Cadence offers a free distribution of a demo version to provide an introduction to the power of this simulation package. This text uses the OrCAD 10.0 Demo version. An application for a free demo version is available online through the web site www.orcad.com. Select **OrCAD Capture** and then **OrCAD Demo CD Request**. Fill out the provided form to receive a copy of the demo version.

You can also contact EMA Mid Atlantic at 1-877-EMA-EDA1 or visit the EMA web site at www.ema-eda.com

Minimum system requirements:

- Pentium 4 (32-bit) equivalent or faster Edition, or Windows 2000 (SP4)
- 256 MB RAM (512 MB recommended)
- 300 MB swap space (or more)
- CD-ROM drive
- 32,768 color Windows display

MULTISIM 8

Multisim is a product of Electronics Workbench, a subsidiary of National Instruments. Its web site is www.electronicsworkbench.com and phone number in the U.S. and Canada is 1 800-263-5552. In Europe, the web site is www.ewbeurope.com and phone number is 31-35-694-4444.

Copies can be purchased at the above web sites and through Prentice Hall at www.prenhall.com.

Minimum system requirements:

- Windows 2000/XP (Windows XP Professional recommended)
- Pentium III (Pentium 4 recommended)
- 128 MB RAM (256 MB recommended)
- 150 MB hard disk space (500 MB recommended)
- CD-ROM drive
- 800×600 screen resolution (1024×768 recommended)

MATHCAD 12

Mathcad is a product of MathSoft Engineering and Education, Inc. located at 101 Main Street, Cambridge, MA 02142-1521. The web site is www.mathsoft.com. The academic version of Mathcad is available online for purchase at www.edu.com and www.journeyed.com. Professors

can purchase the current Mathcad 12 Academic Edition by calling the customer service department at 800-628-4223 or 617-444-8000 or email sales-info@mathsoft.com.

Minimum system requirements for Mathcad 12:

PC with 300 MHz or higher processor clock speed (400 MHz or higher recommended)

Windows 2000, XP, or higher

128 MB RAM (256 MB or higher recommended)

Video card and monitor support for 16-bit or higher color depth and 800×600 or higher screen resolution

100 MB disk space

CD-ROM or DVD drive