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# Codes and References

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*Electrical Engineering Sample Examinations* is based on the following codes and references. The electrical PE exam is consistent with the last edition of the code issued before the year of the exam. For more information about the variety of codes related to electrical engineering, refer to the following organizations and their websites.

American National Standards Institute ([www.ansi.org](http://www.ansi.org))  
 Electronic Industries Alliance ([www.eia.org](http://www.eia.org))  
 Federal Communications Commission ([www.fcc.gov](http://www.fcc.gov))  
 Institute of Electrical and Electronic Engineers ([www.ieee.org](http://www.ieee.org))  
 Instrument Society of America ([www.isa.org](http://www.isa.org))  
 International Organization for Standardization ([www.iso.org](http://www.iso.org))  
 National Electrical Manufacturer's Association ([www.nema.org](http://www.nema.org))  
 National Fire Protection Agency ([www.nfpa.org](http://www.nfpa.org))

The PPI website ([www.ppi2pass.com/eefaq](http://www.ppi2pass.com/eefaq)) provides the dates of the codes, standards, and regulations that the current exams are based on, according to the NCEES. Use this information to decide which editions of these books should be part of your exam preparation.

The minimum recommended library of materials to bring to the electrical PE exams consists of the *Electrical Engineering Reference Manual*, the applicable code book, a standard handbook of electrical engineering, and one or two textbooks that cover fundamental circuit theory (both electrical and electronic). The following list includes codes necessary for taking the exam, as well as textbooks and handbooks that you may be familiar with and that would be useful resources while taking and preparing for the exam. The books listed with “reference” brackets are those that should prove useful to you after the exam.

## Codes

Federal Communications Commission (FCC). *Code of Federal Regulations*, “FCC Rules”: 2004 Title 47-Telecommunications, Ch. 73. “Radio Broadcast Rules,” (47CFR73). [Communications]

Institute of Electrical and Electronics Engineers (IEEE). 2008 *National Electrical Safety Code*, (NESC). [Power]

National Fire Protection Association (NFPA). 2008 *National Electrical Code*, (NFPA 70). [Power]

## References

*American Electrician's Handbook*. Terrell Croft and Wilford I. Summers. McGraw-Hill. [Power handbook]

*An Introduction to Digital and Analog Integrated Circuits and Applications*. Sanjit K. Mitra. Harper & Row, Publishers. [Digital Circuit Fundamentals textbook]

*Applied Electromagnetics*. Martin A. Plonus. McGraw-Hill. [Electromagnetic Theory textbook]

*CRC Materials Science and Engineering Handbook*. James F. Shackelford, William Alexander, and Jun S. Park, eds. CRC Press, Inc. [General engineering handbook]

*CRC Standard Mathematical Tables*. William H. Beyer, ed. CRC Press, Inc. [General engineering reference]

*Electrical Power Technology*. Theodore Wildi. John Wiley & Sons. [Power Theory and Application textbook]

*Electronic Engineer's Handbook*. Donald Christiansen, ed. McGraw-Hill. [Electrical and Electronics handbook]

*Introduction to Computer Engineering*. Taylor L. Booth. John Wiley & Sons. [Computer Design Basics textbook]

*Linear Circuits*. M.E. Van Valkenburg and B.K. Kinariwala. Prentice-Hall, Inc. [AC/DC Fundamentals textbook]

*McGraw-Hill Dictionary of Scientific and Technical Terms*. Sybil P. Parker, ed. McGraw-Hill. [General engineering reference]

*McGraw-Hill Internetworking Handbook*. Ed Taylor. McGraw-Hill. [Computer handbook]

*Microelectric Circuit Design*. Richard C. Jaeger. McGraw-Hill. [Electronic Fundamentals textbook]

*Microelectronics*. Jacob Millman. McGraw-Hill. [Electronic Fundamentals textbook]

*National Electrical Code Handbook.* Mark W. Earley, Joseph V. Sheehan, et al. National Fire Protection Association. [Power handbook]

*National Electrical Safety Code (NESC) Handbook.* David J. Marie. McGraw-Hill. [Power handbook]

*NEC Answers.* Michael A. Anthony. McGraw-Hill. [National Electrical Code Example Applications textbook]

*Power System Analysis.* John J. Grainger and William D. Stevenson, Jr. McGraw-Hill. [Power textbook]

*Process/Industrial Instruments and Controls Handbook.* Gregory K. McMillan, ed. McGraw-Hill. [Power and Electrical and Electronics handbook]

*Standard Handbook for Electrical Engineers.* Donald G. Fink and H. Wayne Beaty. McGraw-Hill. [Power and Electrical and Electronics handbook]

*The Biomedical Engineering Handbook.* Joseph D. Broizmo, ed. CRC Press. [Electrical and Electronics handbook]

*The Communications Handbook.* Jerry D. Gibson, ed. CRC Press, Inc. [Electrical and Electronics handbook]

*The Computer Science and Engineering Handbook.* Allen B. Tucker, Jr., ed. CRC Press, Inc. [Computer handbook]

*The Internet for Scientists and Engineers,* Brian J. Thomas. SPIE Press & IEEE Press. [Computer reference]

*The IESNA Lighting Handbook, Reference & Applications.* Mark S. Rea, ed. Illuminating Engineering Society of North America. [Power handbook]

*Wireless and Cellular Telecommunications.* William C.Y. Lee. McGraw-Hill. [Electrical and Electronics handbook]