

## 2016 PEO ELECTRICAL ENGINEERING EXAMINATIONS TEXTBOOKS REFERENCE LIST

NOTE: Please feel free to use the most recent edition of textbooks referenced in this list

### **16-Elec-A1 Circuits**

Nilsson, James W. and Susan Riedel, Electric Circuits, latest edition. Prentice Hall.  
Alexander, Charles and Mathew Sadiku, Fundamentals of Electric Circuits, latest edition. McGraw Hill.  
Schwarz and Oldham, Electrical Engineering: An Introduction, latest edition. Oxford University Press.

### **16-Elec-A2 Systems and Control**

Dorf, Richard C. and Robert H. Bishop, Modern Control Systems, latest edition. Addison-Wesley.  
Nise, Norman S., Control Systems Engineering, latest edition, Wiley.

### **16-Elec-A3 Signals and Communications**

Haykin, Communication Systems, latest edition, John Wiley & Sons Canada Ltd.  
Or  
Haykin, Simon & Michael Moher, Introduction to Analog and Digital Communication Systems, latest edition, John Wiley & Sons.  
Lathi, B.P., Signal Processing and Linear Systems. Oxford University Press.  
or  
Haykin, Simon & Barry Van Veen, Signals and Systems, Interactive Solutions Edition, latest edition, John Wiley & Sons Canada Ltd.

### **16-Elec-A4 Digital Systems and Computers**

Brey, Barry, The Motorola Microprocessor Family: 68000, 68008, 68010, 68020, 68030, and 68040: Programming and Interfacing with Applications. Saunders College Publishing.

### **16-Elec-A5 Electronics**

Sedra and Smith, Microelectronic Circuits, latest edition. Oxford University Press.

### **16-Elec-A6 Power Systems and Machines**

Chapman, Stephen, Electric Machinery and Power System Fundamentals, McGraw Hill.  
Wildi, Theodore, Electrical Machines, Drives, and Power Systems, latest edition, Prentice Hall.

### **16-Elec-A7 Electromagnetics**

Hayt, William H. and John A. Buck, Engineering Electromagnetics. McGraw Hill.

### **16-Elec-B1 Digital Signal Processing**

Ifeachor, Emmanuel, and Barrie Jervis, Digital Signal Processing, a Practical Approach, latest edition. Prentice Hall.  
Mitra, Sanjit, Digital Signal Processing, a Computer-Based Approach, latest edition. McGraw Hill.

### **16-Elec-B2 Advanced Control Systems**

Dutton, Ken, Steve Thompson, and Bill Barraclough, The Art of Control Engineering. Prentice Hall.  
Nise, Norman, Control Systems Engineering. John Wiley.

### **16-Elec-B3 Digital Communications Systems**

Couch, Leon W., Digital and Analog Communication Systems, latest edition. Prentice Hall.  
Lathi, B. P., Modern Digital and Analog Communication Systems, latest edition. Oxford University Press.  
Sklar, Bernard, Digital Communications Fundamentals and Applications, latest edition, Prentice Hall.

### **16-Elec-B4 Information Technology Networks**

Leon-Garcia, Alberto, and Indra Widjaja, Communication Networks, latest edition. McGraw-Hill.  
Freeman, Roger L., Telecommunication System Engineering, latest edition. John Wiley & Sons Canada, Ltd.  
Rappaport, Theodore S., Wireless Communications: Principles and Practice, latest edition. Prentice Hall.

**16-Elec-B5 Advanced Electronics**

Sedra and Smith, Microelectronic Circuits, latest edition. Oxford University Press.  
Horowitz, Paul, and Winfield Hill, The Art of Electronics, latest edition. Cambridge University Press.

**16-Elec-B6 Integrated Circuit Engineering**

Rabaey, Jan A., Anantha Charndrakasan and Borivoje Nikolic, Digital Integrated Circuits, latest edition. University of California, Berkeley, Prentice-Hall.

**16-Elec-B7 Power Systems Engineering**

Glover, J. Duncan, and Mulukutla Sarma, Power System Analysis and Design, latest edition. Thomson Learning.  
Grainger, John and William Stevenson Jr., Power System Analysis. McGraw Hill.

**16-Elec-B8 Power Electronics and Drives**

Rashid, Muhammad H., Power Electronics: Circuits, Devices and Applications, latest edition. Prentice-Hall.  
Mohan, N, Undeland, T, Robbins, W, Power Electronics – Converters, Applications, and Design. John Wiley.  
Sen, P C., Principles of Electric Machines and Power Electronics, latest edition. Wiley.

**16-Elec-B9 Electromagnetic Field, Transmission Lines, Antennas, and Radiation**

Ulaby, Farwwaz, Fundamentals of Applied Electromagnetics, latest edition. Prentice Hall,.

**16-Elec-B10 Electro-Optical Engineering**

Yariv, Amnon, and Pochi Yeh, Photonics: Optical Electronics in Modern Communication, latest edition. Oxford University Press.