

## **Electrical Engineering Technology A Pathfinder**

The Learning Resources Center is a source of information on Electrical Engineering Technology. This pathfinder provides an overview of resources available to help you thoroughly research your topic. If you would like assistance using these resources, please ask a librarian for help.

### **Books and Audiovisual Materials**

The online public access catalog (OPAC) provides a listing of all books and audiovisual materials owned by the BCC Learning Resources Center. You can search the OPAC from stations in the library, or from a remote location, such as a campus computer lab or your home computer via the BCC Library Web site [www.sunybroome.edu/~library/](http://www.sunybroome.edu/~library/). From your [BCC Today](#) home page, look under the “Web Tools” tab. To access BCC Library’s online catalogs select “Catalog” under “Search” on the BCC Library’s homepage. A few of the subjects relating to Electrical Engineering Technology include:

Automatic control	High voltages
Automatic machinery	Magnetism
Electric circuits	Process control
Electric filters, Active	Signal Processing
Electric power systems	

### **Reference Collection**

The Reference Collection contains dictionaries, encyclopedias and specialized books related to many different subject areas. Most reference books on Electrical Engineering Technology are found in the TK section of the Reference Collection located on the first floor of the Library. These books are for use in the Library only.

The following books are located in the Reference Collection:

- |      |   |
|------|---|
| Ref  | Croft, Terrell and Wilford I. Summers, eds. <u>American Electricians’ Handbook</u> . 14 <sup>th</sup> ed. |
| TK   | New York: McGraw-Hill, 2002.  |
| 151  | Includes updates on the National Electrical Code, information on high-                                    |
| .C8  | efficiency motors, advances in circuit devices, grounding and surge suppressors.                          |
| 2002 |   |
| Ref  | Fink, Donald G. and H. Wayne Beaty, eds. <u>Standard Handbook for Electrical</u>                          |
| TK   | <u>Engineers</u> . 14th ed. New York: McGraw-Hill, 2000.  |
| 151  | Covers a variety of topics relating to electronics, electric and magnetic circuits,                       |
| .S8  | power distribution, telecommunications and more.  |
| 2000 |   |

- Ref      Gibilisco, Stan and Neil Sclater, eds. Encyclopedia of Electronics. 2<sup>nd</sup> ed. Blue Ridge  
TK      Summit, PA: TAB Books, 1990.  
7804      Aimed to bridge the gap between dictionaries and handbooks of electronics for  
.E47      the electronics engineering professional.  
1990
- Ref      Golio, Mike, ed. The RF and Microwave Handbook. Boca Raton, FL: CRC Press,  
TK      2001.  
7876      Provides engineers with detailed and comprehensive information outside their  
.R493      area of expertise. Includes important information pertaining to industry, government,  
2001      and academia.
- Ref      Herman, Stephen L. Delmar's Standard Textbook of Electricity. 3<sup>rd</sup> ed. Clifton Park,  
QC      NY: Delmar Learning, 2004.  
522      A useful resource for the basics of electricity, electric circuits, meters, motors,  
.H47      and technical terminology.  
20045
- Ref      Laughton, M. A. and D. J. Warne, eds. Electrical Engineer's Reference Book. 16<sup>th</sup> ed.  
TK      Oxford: Newnes, 2003.  
145      A wide range of engineering information, including current commercial and  
.E36      environmental concerns, industrial practice and academic fundamentals.  
2003

## Book Collection

Many general books on Electrical Engineering technology are located in the T-TK section of the Circulating Collection, located on the second floor of the library. You may want to browse these books to become more familiar with your topic. Books on specific aspects of electrical engineering are located with information on that subject. For example, the use of graphics in electrical engineering is located in the T353 section of the collection.

Here are some call number areas you may find useful:

T11	Technical writing
TJ223	Programmable controllers
TK275 to TK301	Electric measurements
TK7878	Electrical and electronic measurements and instruments
TK7881	Power electronics

These books may be checked out of the library with a BCC ID.

## E-Book Collection

Many reference books and handbooks on Electrical Engineering are available from our NetLibrary Collection, an online book service. To access BCC Library's eBook catalog select "Electronic Books" under "Search" on the [BCC Library's homepage](#). You can search for books by title or keyword, or even search the contents of the eBooks for specific information. Since you can access NetLibrary from any internet-abled computer, this is an excellent resource for finding reference materials whenever you need them. Once you have selected an eBook to read, click on the "Browse this eBook online" link to open the book. Here are some eBooks you may find useful for Electrical Engineering:

- Ganíc, Ejup N., Tyler Gregory Hicks, and Michael Predko. McGraw-Hill's Engineering Companion. New York: McGraw-Hill, 2003.
- Gibilisco, Stan. Teach Yourself Electricity and Electronics. New York: McGraw-Hill, 2002.
- Phipps, Clarence A. Fundamentals of Electrical Control. Lilburn, GA: Fairmont Press, 1999.
- Porter, Gregory J. and Andrew J. Van Sciver. Power Quality Solutions: Case Studies for Troubleshooters. Lilburn, GA: Fairmont Press, 1999.

## Databases and Periodicals

The library subscribes to many databases with periodical literature for engineering, much of it in full text format. To access the databases, select "Articles" under "Search" on the [BCC Library's homepage](#), then select from a listing of the BCC Library's online databases. Here are some full text database sources related to your subject area:

**EBSCO** – Provides full text access to the following related journals:

Computer Graphics World  
Computerworld  
Electrical World  
Electronic Engineering Times  
Popular Science  
Science

**FirstSearch / WilsonSelectPlus** – Provides full text access to journals in science, humanities, education and business. To access this database: Select FirstSearch from the database listing page, then select the WilsonSelectPlus database under database selection. Examples of full text journals in this database related to EET include:

Design News  
Electronic Design  
EDN  
IBM Journal of Research and Development  
Journal of Engineering Technology

PC World  
Science News  
Technology Review

**ScienceDirect** – This database contains full text articles from over 700 science, technology, and medical journals. Some of the technology journals related to electrical engineering technology include:

Computers & Electrical Engineering  
Displays  
Microprocessors and Microsystems  
Optics & Laser Technology  
Signal Processing: Image Communication

### **All of these electronic resources are available remotely**

To access services off campus, simply go to the BCC homepage, [www.sunybroome.edu/](http://www.sunybroome.edu/) and look for the link into the Library under “About BCC”. Or, go directly to the BCC Library homepage [www.sunybroome.edu/~library/](http://www.sunybroome.edu/~library/). Once at the [BCC Library’s homepage](#), click “Articles” under “Search” and select the database of your choice. A dialog box will appear requesting the following:

Username = First part of your BCC email address  
*Last name, first initial and possibly a number. (ex. goldmanf3)*  
Password = [xxxxxxx]  
*Use your password for the BCC Intranet (BCC Today).*

### **Periodicals in Print**

A complete listing of the magazines and journals received in print is available in the reference area. Journals related to Electrical Engineering Technology include:

Electronic Design  
ENR  
IEEE Spectrum  
Poptronics  
Technology Review  
Wired

## **Professional Associations**

*Organizations of experts, policy makers, and researchers.*

### **American National Standards Institute**

[www.ansi.org](http://www.ansi.org)

### **Electronic Industries Association**

[www.eia.org](http://www.eia.org)

### **Independent Electrical Contractors (IEC)**

[www.ieci.org](http://www.ieci.org)

### **Institute of Electrical and Electronic Engineers (IEEE)**

[www.ieee.org](http://www.ieee.org)

### **International Organization for Standardization (ISO)**

[www.iso.ch/iso/en/ISOOnline.frontpage](http://www.iso.ch/iso/en/ISOOnline.frontpage)

### **National Electrical Contractors Association (NECA)**

<http://necanet.org>

## **Selected Internet Sites**

### **BCC EET** [www.sunybroome.edu/~eet\\_dept](http://www.sunybroome.edu/~eet_dept)

The Electrical Engineering Technology Department web site is a good place to start for EE information and links to Internet sites. Check the “Whiz Bang Stuff” links for fun.

### **Circuits Archive UWEE** [www.ee.washington.edu/circuit\\_archive](http://www.ee.washington.edu/circuit_archive)

The Electrical Engineering Department of the University of Washington collects circuit designs of all kinds for students and professionals. Also includes data sheets, models, downloadable software, tutorials and digital design links.

### **Datasheet Locator** [www.datasheetlocator.com](http://www.datasheetlocator.com)

Datasheet Locator is a free electronic engineering tool that enables you to locate product datasheets from hundreds of electronic component manufacturers worldwide.

### **Dictionary of Units** [www.ex.ac.uk/cimt/dictunit/dictunit.htm](http://www.ex.ac.uk/cimt/dictunit/dictunit.htm)

A summary of the units of measurement in use around the world today. Units of measurement include definitions, standards and conversion factors.

### **Edinburgh Engineering Virtual Library** [www.eevl.ac.uk](http://www.eevl.ac.uk)

EEVL provides quick and reliable access to the best engineering, mathematics, and computing information available on the Internet. Resources include e-journals, databases, training materials,

professional societies, university and college departments, research projects, bibliographic databases, software, information services and recruitment agencies.

**Efunda** [www.efunda.com/home.cfm](http://www.efunda.com/home.cfm)

Provides fundamental engineering information in the areas of materials, design, units & constants, formulas, and mathematics.

**MIT OpenCourseWare – Electrical Engineering and Computer Science.**

<http://ocw.mit.edu/OcwWeb/Electrical-Engineering-and-Computer-Science/index.htm>

MIT's goal is to make all its course lectures and materials available on line, free to anyone. Link into any engineering course, and check out the tools and resources available.

**National Academies** [www.nationalacademies.org](http://www.nationalacademies.org)

Access to current US government research, policies, statistics and thousands of free online books and reports from the National Academy of Sciences, National Academy of Engineering, Institute of Medicine and the National Research Council. Many hyperlinks to related sites.

**National Institute of Standards and Technology** [www.nist.gov](http://www.nist.gov)

NIST's mission is to develop and promote measurement, standards, and technology to enhance productivity, facilitate trade, and improve the quality of life. Their web site is a portal to a treasure trove of databases, research centers, reports and tools.

**NSSN: A National Resource for Global Standards.** [www.nssn.org](http://www.nssn.org)

A central point to search for standards information from many sources. Links to standards suppliers and developers.

**Science.Gov** [www.science.gov](http://www.science.gov)

This is a gateway to authoritative selective science information provided by US government agencies. You can search by keywords, or select from a list of web sites organized by subject.