ELECTRICAL ENGINEERING

This is a selected guide to resources held in the Coleman Library to support electrical engineering. To locate any of the listed materials, consult the online catalog or ask the librarian.

Classification of Material:

TK1-9971 Electrical engineering. Electronics. Nuclear engineering
TK452-454.4 Electric apparatus and materials. Electric circuits. Electric networks
TK2896-2985 Production of electricity by direct energy conversion
TK3001-3521 Distribution or transmission of electric power
TK4001-4102 Applications of electric power
TK5101-6720 Telecommunication
TK7800-8360 Electronics
TK7885-7895 Computer engineering. Computer hardware
TK8300-8360 Photoelectronic devices (General)
TK9001-9401 Nuclear engineering. Atomic power

SELECTED RESOURCES

DICTIONARIES/ENCYCLOPEDIAS


HANDBOOKS


Golio, Mike, and Janet Golio, eds. The RF and Microwave Handbook. [Coleman – Reference TX876 .R486 2008]


**DATABASES**

**Access Science**

**ACM Digital Library**
Full-text access to all ACM journals, magazines, and Special Interest Group conference proceedings. A wide range of computer- and information-science topics are covered.

**American Chemical Society Journals**
Journals of chemical society.

**Applied Science & Technology Full Text**
Periodical coverage includes trade and industrial publications, journals issued by professional and technical societies, and specialized subject periodicals, as well as special issues such as buyers’ guides, directories, and conference proceedings.

**Association for Computing Machinery's Digital Library**
Full-text access to all ACM journals, magazines, and Special Interest Group conference proceedings covering a wide range of computer and information science topics.

**BE Press**
Scholarly journals in the areas of Economics, Business, and Marketing; Law; Political Science and Current Affairs; Biological Sciences; and Engineering.

**Cambridge Scientific Abstracts**
A collection of more than 50 databases providing bibliographic coverage to current research in multiple disciplines, e.g. the biological sciences, aquatic sciences, engineering and technology, environmental sciences, material science, market research and scientific conferences.
Civil Engineering Abstracts (CSA)
Provides citations, abstracts, and indexing of the serials literature in civil engineering, including forensic engineering, management and marketing of engineering services, engineering education, theoretical mechanics and dynamics, and mathematics and computation.

Computer Database
Find computer-related product introductions, news and reviews in areas such as hardware, software, electronics, engineering, communications and the application of technology.

Elsevier Science Journals
The Elsevier Science Journals Database is the electronic full text version of approximately 650 of Elsevier's traditional research journals. These journals are primarily in the scientific, technical, and medical disciplines.

Engineered Materials Abstracts
Citations regarding the research, manufacturing practices, properties and applications of polymers, ceramics, and composites, have been taken from 1,300 journals, plus dissertations, government reports, conference proceedings, and books indexed by expert.

Engineering Index Current
A comprehensive interdisciplinary engineering database, Engineering Index covers over 4,500 international journals, conference proceedings, books, technical reports, and dissertations.

IEEE Xplore
Provides full text access to journals and technical literature in electrical engineering, computer science, and electronics.

INSPEC
The largest English language file of bibliographic information and abstracts on the world's output of published works in physics, electrical engineering and electronics, computing, and information technology.

Mechanical Engineering Abstracts
Preeminent in its field, Mechanical Engineering Abstracts contains the facts, figures, and discoveries engineers need in order to make faster, more authoritative decisions.

MicroPatent Materials Patents
The importance of rapid access to patent literature for all engineering disciplines - and especially for the materials science and engineering fields - is widely recognized.
ProQuest Science Journals
ProQuest Science Journals is a definitive resource for students studying both the applied and general sciences.

ScienceDirect
The fields covered include: Chemistry and Chemical Engineering; Clinical Medicine; Computer Science; Earth and Planetary Sciences; Engineering and Technology; Environmental Science; Life Sciences; Materials Science; Mathematics; Physics.

Solid State & Superconductivity Abstracts
Solid State and Superconductivity Abstracts jointly published with Engineering Information, provides global coverage on all aspects of theory, production, and application of solid state materials and devices, high- and low-temperature superconductivity technology.

GOVERNMENT DOCUMENTS

PRINT AND ELECTRONIC BOOKS
Bayliss, Colin R. Transmission and Distribution Electrical Engineering. [NetLibrary]


Rosenberg, Paul. Audel Electrical Course for Apprentices and Journeymen. [NetLibrary]


Zarowski, Christopher J. An Introduction to Numerical Analysis for Electrical and Computer Engineers. [NetLibrary]

PRINT AND ELECTRONIC JOURNALS

Computers & Electrical Engineering
from 1995 to present in ScienceDirect Journals

Electrical Engineering
from 01/01/1997 to present in SpringerLink Contemporary

Electrical Engineering In Japan
from 1997 to present in Wiley InterScience Journals

Frontiers of Electrical and Electronic Engineering in China
from 01/03/2006 to present in SpringerLink Contemporary

IEEE Transactions On Knowledge And Data Engineering [Coleman – Periodicals]

IEEE Transactions on Software Engineering. [Coleman – Periodicals]

International Journal of Electrical Systems Science and Engineering
from 01/01/2008 to present in Academic OneFile

International Journal of Electrical, Computer, and Systems Engineering
from 01/01/2007 to present in Academic OneFile and Computer Database

Journal of Electrical Engineering & Technology
from 2006 to present in Freely Accessible Journals
Open Electrical & Electronic Engineering Journal
from 2007 to present in Directory of Open Access Journals

Periodica Polytechnica. Electrical Engineering. Elektrotechnik
from 1990 to 2006 in Freely Accessible Journals

Russian Electrical Engineering
from 01/15/2007 to present in SpringerLink Contemporary

ONLINE RESOURCES

Department of Electrical Engineering - Princeton University
http://www.ee.princeton.edu/research/projects.php

Electrical Engineering: Research
http://www.ee2.caltech.edu/research.html

Engineering Library
http://astech.library.cornell.edu/ast/engr/

IBM Research Electrical Engineering

Electrical Engineering & Computer Sciences | EECS at UC Berkeley
http://www.eecs.berkeley.edu/

Research Electrical and Computer Engineering, Purdue University
https://engineering.purdue.edu/ECE/Research/

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