



# EG - General Engineering Guide

Use this Library Research Guide to help find resources on engineering design, manufacturing, and materials science- scholarly articles, books, websites, etc. Also linked are professional organizations, career info, and writing & presentation help. Include

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Writing & Presentation Help

Citing Sources

Career Information

EG 110 Guide / Research Project

EG 335 - Systems Engineering

## Key Journals

- Science & Engineering Ethics
- Advances in Materials Science & Engineering
- Advances in Mechanical Engineering
- Engineer
- Industrial Robot: An International Journal
- International Journal of Advanced Robotic Systems
- International Journal of Control
- Engineering Letters
- Journal of Materials Science
- Mechanical Engineering : The Journal of the American Society of Mechanical Engineers (ASME)
- International Journal of Sustainable Engineering (IJSE)
- Journal of Management in Engineering
- Mathematics of Control, Signals & Systems

## The Multi-Search

### Search for books, articles, and more using the Multi-Search:



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## Recommended Databases

The Shapiro Library subscribes numerous databases filled with scholarly articles, book chapters, research reports, statistics, and more from thousands of respected publications. The following is a list of some of the best database for doing research on the subject of engineering:

- **AccessEngineering** [↗](#) 

AccessEngineering is an award-winning engineering reference tool for professionals, academics, and students that provides seamless access to the world's best-known, most-used collection of authoritative, regularly updated engineering reference information.

- **IEEE Xplore Digital Library (Institute of Electrical and Electronic Engineers)** [↗](#) 

The IEEE Xplore digital library is a powerful resource for discovery of and access to scientific and technical content published by the IEEE (Institute of Electrical and Electronics Engineers) and its publishing partners. Provides access to over four million articles, conference proceedings, technical standards, ebooks, and more on topics in electrical engineering, computer science and electronics. Includes Wiley, MIT, and SAE International ebook collections.

- **Engineering Village** [↗](#) 

The Shapiro Library's subscription includes Ei Compendex and Ei Inspec. Engineering Village allows you to search Inspec and Compendex simultaneously or alone. Inspec covers the fields of physics, electronics, computing, control engineering and information technology. It includes journal articles, conference proceedings, patents, and dissertations from 1898 to present. Compendex is a comprehensive interdisciplinary engineering database with journals and conference materials dating from 1884.

- **Knovel** [↗](#) 

## systems

- ◀ Previous: Sample Books: Materials Science Quality Engineering

- Research in Engineering Design
- Advances in Electrical and Electronic Engineering
- Canadian Journal of Electrical and Computer Engineering

Knovel is an eBook database. Knovel's content collection includes material properties, process and design information, best practices, equations and formulations for specific engineering disciplines.

Next: Finding Web Resources >>

- **ASTM Standards & Engineering Digital Library (American Society for Testing and Materials)**  

Online access to the digital edition of every book, paper and journal article ever published by ASTM. Includes more than 1,500+ Manuals and Special Technical

Publications, totaling more than 35,600 chapters and papers and more than 17,000 journal articles. The Digital Library covers a broad range of engineering

disciplines including aerospace, biomedical, chemical, civil, environmental, geological, health and safety, industrial, materials science, mechanical, nuclear, petroleum, soil science and civil engineering. **NOTE: Your browser must be set to accept third party cookies to use this resource, please see the FAQ "How do I set my browser to accept cookies?"**

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- **Science Database - ProQuest**  

Full text and images for the leading periodicals in science and technology. Subject coverage includes computers, engineering, physics, telecommunications, and transportation

- **JoVE (Journal of Visualized Experiments)**  

JoVE is the world's first peer-reviewed scientific video journal and It publishes experimental techniques in a visual format with detailed text protocols. Subjects covered include STEM such as engineering, chemistry, medicine, biology, and environment.

## Aviation Specific Databases

- **AIAA Journals (American Institute of Aeronautics and Astronautics)**  

The American Institute of Aeronautics and Astronautics (AIAA) is the premier provider of information on aerospace technology, engineering, and science. These titles document the most important developments and the latest research in air and space history. Access to these journals is provided through ARC – Aerospace Research Central.

## More Science & Engineering Databases

- **ScienceDirect**  

Offers a collection of full text, scholarly journals and eBooks in science

- **AccessScience** 

AccessScience is an online resource that contains material covering all major scientific disciplines, including links to primary research material, videos, animations, and curriculum maps for teachers. The McGraw Hill Dictionary of Scientific and Technical Terms is also integrated into the search function.

- **SPIE Digital Library (International Society for Optics and Photonics)** 

The SPIE Digital Library is the most extensive resource available on optics and photonics, providing unprecedented access to more than 466,000 technical papers from SPIE Journals and Conference Proceedings and more than 310 eBooks from SPIE Press from 1962 to the present. More than 18,000 new technical papers and 25 eBooks are added annually.

## Google Scholar

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