

MECHANICAL TECHNOLOGY

This is a guide to the Library's collection in Mechanical Technology. It is not comprehensive, but rather provides a good starting point for research. From these sources, you may be able to locate other related works. Please don't hesitate to ask a librarian if you need further assistance.

Subject Headings:

Electromechanical Devices	Heat Engineering	Machine-Shop Practice
Machining	Mechanical Engineering	Mechanical Movements
Power Transmission	Production Engineering	Shop Mathematics

Call Numbers For Browsing:

TA 349-359	Mechanics of Engineering
TJ 1-1570	Mechanical Engineering and Machinery

Periodical Indexes:

Applied Science and Technology Index – Articles on scientific and technical topics such as aeronautics, applied mathematics, automotive engineering, chemical engineering, electrical and electronic engineering, geology, machinery, nuclear engineering, physics, robotics, textile industry, etc. Includes graphs, charts, diagrams, photographs, and illustrations. The content in this database is also part of OmniFile Mega.

General OneFile – General database that provides information on topics such as business, computers, social sciences, humanities, current events, health, politics, environmental issues, law, the arts, technology and science. Indexes and abstracts to over 10,000 titles from magazines, journals, newswires and newspapers, and more than 5,810 are full-text.

SIRS –Includes articles and graphics on social, scientific, economic, health, historic, business, political, global issues, music, art, film, literature, architecture, performing arts, religion, design, culture, philosophy, current and historic government documents, and information about the federal government, U.S. Justices, U.S. Presidents, and U.S. Supreme Court decisions. Also contains links to and summaries of selected, quality Internet Web pages from the United States and around the world. The pages are continually updated and evaluated.

Journals:

<i>American Machinist</i>	<i>Control Engineering</i>	<i>Manufacturing Engineering</i>
<i>Materials Evaluation</i>	<i>Mechanical Engineering</i>	<i>Modern Machine Shop</i>
<i>Modern Materials Handling</i>	<i>MSD: Motion System Design</i>	<i>Power</i>
<i>Quality Progress</i>	<i>Tooling & Production: T & P</i>	

Reference Books:

Amiss, John Milton. *Guide to the Use of Tables and Formulas in Machinery's Handbook*. 25th ed. New York: Industrial, 1996. [Ref] TJ 151 .A445 1996

Hicks, Tyler Gregory. *Handbook of Mechanical Engineering Calculations*. 2nd ed. New York: McGraw-Hill, 2006. [Ref] TJ 151 .H327 2006

More Reference Books:

Kreith, Frank. *CRC Handbook of Mechanical Engineering*. Boca Raton, FL: CRC, 1998.
[Ref] TJ 151 .C73 1998

Marks, Lionel S. *Marks' Standard Handbook for Mechanical Engineers*. 8th ed. New York: McGraw-Hill, 1987. **[Ref] TJ 151 .S82**

Oberg, Erik. *Machinery's Handbook: A Reference Book for the Mechanical Engineer, Designer, Manufacturing Engineer, Draftsman, Toolmaker, and Machinist*. New York: Industrial, 2000.
[Ref] TJ 151 .O245 2000

Rasis, E.P. *Technical Reference Handbook*. Alsip, IL: American Technical, 1984. **[Ref] TJ 151 .R28 1984**

Videos:

<i>Control Valves and Actuators</i>	TJ 223 .V3 C6 1989
<i>Digital Control Techniques</i>	TJ 223 .M53 D5 1986
<i>Fluid Power Technology</i>	TA 357 .F581 1994
<i>Hydraulic Pumps & Motors</i>	TJ 855 .H93 1990
<i>Introduction to Hydraulics Technology</i>	TJ 840 .I55 2004 DVD
<i>Liquid Handling Principles and Centrifugal Pump Fundamentals</i>	TJ990 .L57 1991
<i>Packed Stuffing Boxes and Mechanical Seals</i>	TJ246 .P33 1997
<i>Precision Measuring Tools</i>	TJ 1313 .P743 1991 (6 Tapes)
<i>Programmable Logic Controllers</i>	TJ 223 .P76 (7 Tapes)
<i>Punch Presses</i>	TJ 1255 .P84 1997
<i>Reading Blueprints</i>	T 379 .R4 1982 (10 Tapes)
<i>Reading Schematics and Symbols</i>	T8 .R4 (10 Tapes)
<i>Robotics Technology</i>	TJ 211 .R6 1987
<i>Safety and Familiarization on the Surface Grinder</i>	TJ1280 .M582 1982
<i>Shaft Couplings</i>	TJ 183 .S43 1985

E-Books (Available Via NetLibrary):

Landmarks in Mechanical Engineering
Impurities in Engineering Materials: Impact, Reliability, and Control

Additionally, you may find the Knovel Books Online useful. These electronic books are available in full-text through the Library's homepage.

Internet Sites:

Virtual Library Mechanical Engineering	http://dart.stanford.edu/vlme
Mechanical Engineering Online	http://www.memagazine.org
Virginia Tech Mechanical Engineering Page	http://www.me.vt.edu/overview
Mechanical Engineering Portal	http://icrank.com
Internet Research for Mechanical Engineering	www2.lib.udel.edu/subj/mee/internet.htm
Mechanical Engineer.com	http://www.mechanicalengineer.com
Dictionary of Science and Technology	http://www.gecdsb.on.ca/d&g/apr00/web1.htm
American Society of Mechanical Engineers	http://www.asme.org