Subject Guides: Materials & Minerals Resources Engineering

1. Getting Started – *What's it all about?*

If you are not sure what your topic is all about, look up it in a ***dictionary*** or ***encyclopedia*.** Start with:

Title	Item Location	Call No.
Encyclopedia of materials characterization: surfaces, interfaces, thin films	Kejuruteraan	TA418.7.E56 1992 r Kejuruteraan
Encyclopedia of materials science and engineering	Kejuruteraan	TA402.E56 1986 r Kejuruteraan
Polymeric materials encyclopedia	Kejuruteraan	TP1110.C744 1999 f r Kejuruteraan

What's the latest? For a recent overview of your topic try a ***handbook*** or a ***yearbook***. They can have all kinds of facts, figures and precise information. Try:

Title	Item Location	Call no.
Materials handbook: an encyclopedia for managers, technical professionals …	Kejuruteraan	TA402.B8132 2002 r Kejuruteraan
Materials handbook a concise desktop reference	Kejuruteraan	TA404.8.C226 2000 r Kejuruteraan
Handbook of nanophase and nanostructured materials	Kejuruteraan	TA418.9 .N35H236 1997 r Kejuruteraan
Corrosion resistant materials handbook	Kejuruteraan	TA418.75.C825 f Kejuruteraan
SAE fatigue design handbook	Kejuruteraan	TA409.F253 1997 f Kejuruteraan
Mechanical testing and evaluation	Kejuruteraan	TA459.M486 2000 f Kejuruteraan
The materials selector	Kejuruteraan	TA403.M425 1997 f r Kejuruteraan

2. Next Steps – *Start with a book*

Use the **Keyword search** in the Library's Catalogue. You can search using words like – **materials.**

You can also browse the catalogue, or browse the shelves at the following **call numbers**

TA401	Materials of engineering and construction
TA405	Mechanics of materials
TA418.5	Physical properties of materials
TA418.9	Materials of special composition or structure
TA424	Special materials

3. Locating up-to-date information – *Subject-specific journal articles*

For recent information, journal articles are often the best sources. Looking through individual journals in the hope of finding relevant material is time-consuming. It is better to use the databases to find articles on your topic. Access to *all databases* is via the Library's Database Page.

Start with the following **key databases** for this subject –

Database name	Content Notes
ScienceDirect	An electronic collection of science, technology and medicine full text and bibliographic information published by Elsevier Science and its various imprints, including Academic Press and the Harcount Health Sciences group.
Proquest Science Journals	Proquest science journals are a resource for students studying applied and general science. It covers all major fields of study including physics, chemistry, engineering, earth sciences and astronomy.
SpringerLink	SpringerLink is a visionary information service created for the Internet by the science publisher Springer. SpringerLink is divided according to field into the so-called Online Libraries of life sciences, chemical sciences, geosciences, computer science, mathematics, medicine, physics & astronomy, engineering, environmental sciences, law, and economics.
Engineering Village 2	All fields of engineering. Industry specifications and standards. Patents.
ENGnetBase **Engineering Handbook Online**	CRC Press is one of the world's leading publishers of Engineering Handbooks. Now the handbooks are available online.
Digital Engineering Library	Digital Engineering Library features content from world renowned McGraw-Hill publications, including classics such as Marks' Standard Handbook for Mechanical Engineers (10th ed.), Perry's Chemical Engineers Handbook (7th ed.), Standard Handbook for Electrical Engineers (14th ed.), Roark's Formulas for Stress and Strain (7th ed.), and many more. We offer the widest and deepest repository of engineering content available online – from the authors and titles, engineers have trusted and depended on for years.
PolymersnetBase	Welcome to a wealth of data online with the new CRC **POLYMERS***net***BASE**. Now you can simultaneously search three databases of polymer information: • **Polymeric Materials Encyclopedia** • **Polymers: A Property Database** • **Polymer Books** from Taylor and Francis
NanonetBase	**NANO*netBASE*** is the world's premier online collection of nanoscience and nanotechnology references. Bringing together leading experts from the most prestigious and cutting-edge academic, industrial, and government institutions, it offers researchers, students, and professionals the most authoritative and convenient source available for both introductory and specialized information

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There may be other databases for the subject. Check online at http://lib.usm.my/equip-usm/custom/dbusm.jsp

Make sure you use the right words for your search. When you are searching, near enough may not be good enough. Ask the library staff for assistance check a database guide or attend an information skills class.
Remember that many journals are now available in full text online through the Library e-Resources. They are linked directly from within your database search.

4. Exploring further – *Selected Internet Sites*

Start with the following **key internet sites** for this subject –

http://www.materials.uq.edu.au/	Division of Materials Engineering, School of Engineering, University of Queensland.
http://www.eevl.ac.uk/	EEVL – Edinburgh Engineering Virtual Library.
http://www.istl.org/02-spring/internet.html	Materials Science Resources on the Web.
http://www.plastics.com/	Plastics.Com

5. Finding specialized information – *You may also need these*

For some topics you will need to consult specialist information sources.

British Standards	T50.M294 f Kejuruteraan	British Standards Institution
ASTM	TA404.5.A512 2005 f Kejuruteraan	Annual book of Standards

More questions? – Ask at the Information desk or check the Library's Web Page: at http://www.lib.usm.my or http://library.eng.usm.my/englib/index.html