

MECHANICAL AND AUTOMOTIVE INFORMATION SOURCES QUICK GUIDE

Books

You can search for books in the Library by looking on the Library catalogue:
<http://www.brad.ac.uk/library> See **reading lists online** for books recommended for individual modules. Some examples of books available:

Budynas, R.G. Nisbett, J.K. (2011) Mechanical engineering design, 9th edn.
Classmark U621.8.01 SHI

Collins, J.A., Busby, H.R. and Staab, G.H. (2010) Mechanical design of machine elements and machines: a failure prevention perspective. 2nd edn.
Classmark: U621.8.01 COL

Stotsky, A, A.
Automotive engines: control, estimation, statistical detection

Classmark: U 621.43 STO

Crolla, D. A. (ed) Automotive engineering: powertrain, chassis system and vehicle body
Classmark: U 629.113 CRO

eBooks

Type the titles into the Library catalogue and follow the hyperlink to connect to the ebook. Alternatively go to **eResources and Databases** and search Knovel. (A collection of Mechanics and Mechanical Engineering eBooks)

Smith, E.H. (1994) Mechanical Engineers reference book, 12th edn.

Myer, K. (2006) Mechanical engineers handbook – energy and power, 3rd edn.

Smith, P. Zappe, R.W. (2004) Valve selection handbook – engineering fundamentals for selecting the right valve design for every industrial flow application

Harrison, H.R.; Nettleton, T (1997) Advanced Engineering Dynamics

Encyclopaedias and Dictionaries

Nayler, G. H. F. Dictionary of mechanical engineering

Classmark: U 621(03) NAY (Reference only)

Cardarelli, F. (2003) Encyclopaedia of Scientific Units, Weights and Measures (eBook available electronically via Knovel)

Journal Titles

Some examples of useful titles the Library subscribes to:

- Mechanical engineering
- Mechanical systems and signal processing

- IEEE/ASME transactions on mechatronics.
- International journal of heat and mass transfer
- Applied thermal engineering: design, processes, equipment, economics.
- Professional Engineering
- Progress in energy and combustion science
- International journal of fatigue
- Automotive design and production
- Automotive industries.
- Proceedings of the Institution of Mechanical Engineers Part B, Journal of engineering manufacture
- Automotive news
- Probability in the engineering and informational sciences

Information Databases

All the following databases can be found on the Library home page. Follow the link **eResources and Databases**.

Compendex®:

This is the first place to look for all engineering research. Compendex is the most comprehensive database for engineering. You can search for journals articles, technical papers and conference proceedings. The material dates back to 1884.

Web of Knowledge:

In Web of Knowledge you will find 'Web of Science' and 'Journal Citation Index'. Web of Science indexes peer reviewed journals. It's a good multidisciplinary database. It is possible to do a 'citation search'. This function enables you to search for all the papers, which have quoted a particular reference.

IEEE Xplore®:

An excellent resource which allows you to access to the full IEEE / IET Electronic Library (IEL) which contains over 2.6 million full-text documents. High quality technical literature in engineering and technology.

Proquest®:

Multidisciplinary database with many articles available in full text.

Barbour Index Health and Safety:

Full text of a wide range of up to date health and safety documentation, including legislation, regulations, standards and guidance.

ScienceDirect®:

Full text access to over 2,000 peer reviewed journal titles.

IMechE Proceedings Archive:

The *IMechE Proceedings Archive 1847-1996* gives you direct access to over 200,000 pages of unique material, including technical papers, obituaries, meeting reports, technical drawings, and editorial comment, all covering some of the most influential and innovative years of engineering development.

Conference Proceedings

Web of Science:

Indexes proceedings of conferences.

British Library Integrated Catalogue:

Has an index of UK conference proceedings.

Materials

Matweb:

<http://www.matweb.com> A searchable database of materials property datasheets.

Standards

SAE (Society of Automotive Engineers)

Search the website for the SAE technical standards. Items can be obtained via the Inter-Library Loan service.

British Standards Online:

The library has access to all current British Standards in full text via BSONline. Eurocodes are also included.

Patents

Esp@cenet:

Worldwide coverage from 63 different countries.

Theses and Research

ETHOS (Electronic Theses Online Service):

Look here to find UK PhD theses which have been digitalised. If ETHOS is unable to supply you with the theses please ask and we might be able to get it via the Inter-Library Loan service.

Bradford Scholars:

Bradford Scholars is an online service designed to host the full text of research materials produced by staff and MPhil/PhD students at the University of Bradford

Virtual Scholars:

Electronic access to the most recent dissertations at the University of Bradford.

Past Exam Papers

Past exam papers are available via Blackboard. To access them log into Blackboard and click on Past Exam Papers under Student Organisations.

Professional Organisations

IMechE: Institute of Mechanical Engineers
www.imeche.org

Email alerts

Zetoc:

Regular updates from the British Library.

Help

If you need any further information or help using all the resources, please contact

Kirsty Carver: Subject Librarian for EDT. Room 1.9

k.carver@bradford.ac.uk

You will also find useful information on the Library Home page.

<http://www.bradford.ac.uk/library>