



THE UNIVERSITY OF THE WEST INDIES
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MAIN LIBRARY

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Electronic Databases in Engineering

INTRODUCTION

The Main Library subscribes to gateway systems as well as individual databases to ensure the widest possible coverage. Access is provided to full-text and/or abstracts of scholarly journal articles, technical reports, e-books, standards, patents, conference proceedings, etc.

The Library's growing number e-resources complement its Engineering print collection, which consists of some 36,766 volumes as well as some 745 print journal subscriptions. The subscription databases themselves provide access to some 5000 e-journals in Engineering.

Access to the collection is facilitated through an online catalogue, a link server (SFX) which provides users with context-sensitive links to full-text articles, and remote authentication for off-site users. A well developed document delivery and interlibrary loan service helps satisfy research and information needs.

ELECTRONIC RESOURCE SUBSCRIPTIONS - ENGINEERING

ACM DIGITAL LIBRARY

54000 on-line articles from 30 journals and 900 proceedings of the Association for Computing Machinery.

AMERICAN CHEMICAL SOCIETY (ACS) JOURNALS

An essential electronic resource that offers full text access to core Chemistry journals published by the American Chemical Society.

CITSEER - SCIENTIFIC LITERATURE DIGITAL LIBRARY

A digital library containing full text articles and citations on scientific literature including computer science.

CRC ENGETBASE

Gives full text access to some of the world's leading engineering handbook collections:

- Civil Engineering Netbase
- Mechanical Engineering Netbase
- Electrical Engineering Netbase
- Telecommunications Netbase

EBSCOHOST

This gateway service provides access to a wide range of

- **Computers & Applied Sciences Complete**

Computers & Applied Sciences Complete covers the research and development spectrum of the computing and applied sciences disciplines. CASC provides indexing and abstracts for more than 1,800 academic journals, professional publications, and other reference sources from a diverse collection. Full text is also available for more than 730 periodicals.

- **Environment Complete**

Environment Complete offers deep coverage in applicable areas of agriculture, ecosystem ecology, energy, renewable energy sources, natural resources, marine & freshwater science, geography, pollution & waste management, environmental technology, environmental law, public policy, social impacts, urban planning, and more. *Environment Complete* contains more than 1,957,000 records from more than 1,700 domestic and international titles going back to the 1940s (including 1,125 active core titles). The database also contains full text for more than 680 journals and 120 monographs.

- **Food Science And Technology Abstracts (FSTA)**

FSTA is produced by the International Food Information Service (IFIS), is the world's leading database of information on food science, food technology and nutrition. The database includes material from over 4,600 serial publications, covering all the major food commodities plus biotechnology, microbiology, food safety, additives, nutrition, packaging and pet foods. Coverage spans from 1969 - present.

- **INSPEC**

Inspec, created by the Institution of Engineering and Technology, is the leading bibliographic database providing abstracts and indexing to the world's scientific and technical literature. Containing nearly 10 million records, Inspec provides coverage from over 3,800 journals, 3,000 conference proceedings as well as numerous books, dissertations, patents and reports. It provides abstracts and indexing to the world's scientific and technical literature in Electrical Engineering and other related disciplines such as Materials Science, Oceanography, Nuclear Engineering, Geophysics, Biomedical Engineering etc. Coverage is from 1969 to present.

- **INSPEC Archive**

This database provides coverage from 1898 to 1968, providing abstracts and indexing to the world's scientific and technical papers in physics, electrical engineering, electronics, and computing and control engineering.

- **National Technical Information Service (NTIS)**

The U.S. NTIS database offers the most in-depth coverage of U.S. and worldwide government sponsored research.

- **Shock & Vibration Digest**

Shock & Vibration Digest includes bibliographic records covering essential areas related to shock and vibration, including noise, vibration technologies, and other areas of key relevance to the discipline.

- **United States Patent and Trademark Office**

A database of over six million records from the United States Patent and Trademark Office. Patents are fully searchable from 1976 to present.

ENCYCLOPEDIA OF DATABASE TECHNOLOGIES AND APPLICATIONS

- The Encyclopedia of Database Technologies provides an overview of the state-of-the-art and includes more than 970 terms and definitions and over 2,400 references.

ENGINEERING VILLAGE

- **Compendex**

With over 10 million records from more than 5,600 scholarly journals, trade magazines and conference proceedings, Compendex is the most comprehensive interdisciplinary literature database available to engineers. Coverage is from 1884 to present.

- **Referex**

A specialized electronic reference product, Referex Engineering draws upon hundreds of premium engineering e-book. Content ranges from broad based engineering titles to highly specialized professional reference texts, provided an extensive and detailed base of reference material to support researchers, academics, R&D engineers, technicians and corporate engineers alike in their diverse work processes. E-book sub-libraries in the database include:

- Chemical, Petrochemical & Process
- Civil & Environmental
- Computing
- Electronics & Electrical
- Materials & Mechanical
- Security & Networking

- **ESP@CENET**

This database which is provided by the European Patent Organization can be used to search European patent applications as well as those of the The World Intellectual Property Organization (WIPO).

- **IHS Standards**

IHS is a single-source provider of critical technical information from more than 370 Standards Developing Organizations, tier-1 manufacturers and key government agencies worldwide.

- **SCIRUS**

This is the most comprehensive scientific research tool on the web. With over 450 million scientific items indexed at last count, it allows researchers to search for not only journal content but also scientists' homepages, courseware, pre-print server material, patents and institutional repository and website information.

ERGONOMICS ABSTRACTS

This is a focused, comprehensive, and international abstracting service, spanning the world of ergonomics and human factors. Research subject areas covered are: General Ergonomics, Human Characteristics, Performance Related Factors, Methods & Techniques, Information Presentation and Communication, Display and Control Design, Workplace and Equipment Design, Environment, System Characteristics, Work Design and Organisation, Health & Safety, Social & Economic Impact, Methods and Techniques.

GEOREF

This online bibliographic database was established by the American Geological Institute and provides access to the geoscience literature of the world. The resource contains references to geoscience journal articles, books, maps, conference papers, reports and theses. This resource is inter-operable with the Geoscience World.

GEOSCIENCEWORLD

This online service offers seamless access a broad range of databases, full text collections and select lists covering a wide range of research topics in the geosciences. This resource is interoperable with the GeoRef.

IEEEEXPLORE

Full text access to the world's highest quality technical literature in electrical engineering, computer science, and electronics. Access is available to IEEE Spectrum Product, IEEE All Society Periodicals Package (ASPP), the AbstractPlus records and full text published since 1998 from some IEEE journals, transactions, and magazines.

IET DIGITAL LIBRARY

The Institution of Engineering and Technology (IET) Digital Library holds more than 90,000 technical papers from all IET journals, magazines, conference publications and seminar digests. Highly cited journals such as Electronics Letters are available alongside 20 IET Research Journal titles, the IET's member magazine Engineering & Technology, plus seminar digests and conference publications. Also available on the IET Digital Library is the IET's online only journal Micro & Nano Letters.

KNOVEL E-BOOKS: SCIENCES AND ENGINEERING

Knovel is a Web-based information service that revolutionizes the way scientists, engineers, and technicians find and use technical information. Knovel merges hundreds of the world's top technical references (full-text) into a single online source, complete with powerful search capabilities and analysis tools.

LYELL COLLECTION

The Lyell Collection of the Geological Society of London features key journals in Earth Sciences. These include the Journal of the Geological Society; Quarterly Journal of Engineering Geology and Hydrogeology; Geochemistry: Exploration, Environment, Analysis; Transactions of the Geological Society, the Geological Society's prestigious Special Publications; the Engineering Geology Special Publications and Memoir book series. Full-text archives date back as far back as 1811.

MATHSCINET

MathSciNet is a comprehensive database covering the world's mathematical literature since 1940.

NETLIBRARY

NetLibrary provides access to your library's eContent collection. eContent is the digital version of books, journals, and database content. E-books in Telecommunications can be found here.

OCLC FIRST SEARCH

- ChemAbsStudent

ONEPETRO

The SPE e-Library is now accessible via OnePetro. This database currently contains more than 80,000 documents. The following organizations currently provide access to their technical documents here:

- American Petroleum Institute (API)
- Offshore Technology Conference (OTC)
- Society of Petroleum Engineers (SPE)
- World Petroleum Council (WPC)
- Society of Underwater Technology (SUT)
- American Rock Mechanics Association (ARMA)
- American Society of Safety Engineers (ASSE)
- NACE International (Corrosion Engineers)
- Society of Petrophysicists and Well Log Analysts (SPWLA)

PETROLEUM ABSTRACTS DISCOVERY

This bibliographic database contains resources related to oil and gas exploration and production. It covers worldwide scientific and technical literature and patents from 1961 to present.

SCIENCE DIRECT WEB EDITIONS

A gateway that provides access to journals in science, technology and medicine subscribed by the Campus Libraries. Searches can be limited to subscribed or unsubscribed journals.

SCIFINDER SCHOLAR

This bibliographic database provides chemical and related scientific information offered by the Chemical Abstracts databases. Information accessed consists of patents and journal references, substance information, regulated chemicals, chemical reactions and chemical supplier information.

SPIN

A bibliographic database of the world's leading journals in physics, astronomy, materials science, and related disciplines.

SPRINGER LINK

SpringerLink is one of the world's leading interactive databases for high-quality STM journals, book series, books, reference works and the Online Archives Collection. SpringerLink is a powerful central access point for researchers and scientists.

ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY

Ullmann's Encyclopedia of Industrial Chemistry is a state-of-the-art reference work detailing the science and technology in all areas of industrial chemistry.

WEB OF KNOWLEDGE - ISI

This resource is an integrated research platform and features such databases as:

- Science Citation Index
 - Journal Citation Reports Science Edition
 - Expanded - Web of Science
 - Essential Science Indicators & ISIhighlycited.com
-

WILEY INTERSCIENCE

Wiley InterScience offers access to full text journals, reference works and databases covering a wide range of subjects.

MULTIDISCIPLINARY DATABASES

The following multidisciplinary databases cover a broad range of subjects including social sciences, business, economics, management, finance, taxation, psychology, advertising, marketing, human resources, international relations, law, arts, humanities and education, health, science, technology, computers, information organization, and women's interests.

PROQUEST

ProQuest provides seamless access to 4 databases containing more than 125 billion digital pages of the world's scholarship in the arts, literature, social sciences, general reference, business, science, technology, and medicine. ProQuest's periodical databases comprises the output of more than 9,000 journal titles and spanning more than 500 years, the pre-eminent dissertation collection (1 million full-text with 60,000 added each year), and various other scholarly collections:

- ABI/Inform Global
- Academic Research Library
- Dissertations & Theses
- U.S. National Newspaper Abstracts

EBSCOHOST

Many full text secondary databases are available via EBSCOhost®. Some of these have engineering content:

- Academic Search Complete
- Business Source Complete
- EJS E-Journals
- MasterFile Premier
- SocSci Index

OCLC FIRST SEARCH

Many of the component databases provide access to current science and technology literature:

- Articlefirst
- Booksinprint
- E-books
- ECO
- Papersfirst
- Proceedings
- Wilsonselectplus
- Worldcat

EMERALD LIBRARY

Provides full text articles to the Library's subscribed Emerald journals. This database covers all major management disciplines from marketing, human resources management, library and information management, training and education, economics, engineering, quality to operations management and more.

GENERAL REFERENCE

CREDO REFERENCE

This is a full text database that comprises of a searchable collection of over 150 online reference books from different publishers. It also includes a collection of art images. The reference books include encyclopaedias, dictionaries and thesauri covering many subject areas.

CONTACT INFORMATION

For additional information on services and resources please visit the Main Library's homepage (<http://mainlib.uwi.tt/>). To set up an appointment for individual or group consultations to assist in the completion of research projects please contact the following:

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