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Electronic Journals and Conference Proceedings

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- **ACM Digital Library** <http://portal.acm.org/>. This database of full-text journals and conference proceedings covers software and computer engineering topics. **Available to PNNL staff and at the user stations only.**
- **Conference Proceedings Citation Index** <http://isiknowledge.com/wos>. Use this integrated index to find engineering conference papers from 1990 – present. It is available via Web of Science and provides access the published literature of conferences, symposia, seminars, colloquia, workshops, and conventions worldwide. **Available to PNNL staff and at the user stations only.**
- **IEEE Xplore** <http://ieeexplore.ieee.org/>. This full-text database includes magazines, transactions, conference proceedings and standards and covers topics in electrical engineering.
- **Science Direct** <http://www.sciencedirect.com/science>. Use this single solution for searching, browsing and delivery of full-text search results from hundreds of peer reviewed electronic journals. **Available to PNNL staff and at the user stations only.**
- **SPIE Digital Library** <http://spiedl.org/>. The SPIE Digital Library is the most extensive resource available on optics and photonics, providing access to more than 260,000 technical papers from SPIE Journals and Conference Proceedings from 1990 to the present. More than 17,000 new research papers are added annually. **Available to PNNL staff and at the user stations only.**

Industry Codes and Standards

- **IEEE Standards** <http://ieeexplore.ieee.org/>. Full-text IEEE standards are available via IEEE Xplore.
- **IHS Standards Expert** <http://specs4.ihserc.com/Home.aspx?sess=599659721&prod=SPECS4&wasForced=true>. This database provides full-text standards for the following standards organizations: **This product is available to PNNL at library workstations only.** Standards Packages available are listed below.

ANS – American Nuclear Society
Series 8 Standards Collection

ANSI – American National Standards Institute
Nuclear Standards Collection

ASHRAE – American Society of Heating,
Refrigeration, and Air Conditioning Engineers

ASME – American Society of Mechanical Engineers

ASTM – American Society for Testing and Metals

AWS – American Welding Society

ISA – Instrumentation, Systems, and Automation
Society

NFPA – National Fire Protection Association

Databases: <https://library.pnl.gov/databases.asp>

- **Compendex**
<http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearch&database=COMPENDEX>
Compendex contains engineering research information from engineering journals, conferences, and technical reports, covering applied physics, chemical and process engineering, civil engineering, computers and data processing, electronics and communication, and mechanical engineering. A tip sheet is available at <http://digbig.com/4yww>.
- **Corrosion Abstracts** <http://www.csa.com/htbin/dbrng.cgi?username=mur3&access=mur3003&db=corrosion-set-c&adv=1>. Corrosion Abstracts provides citations and abstracts for materials in the area of corrosion science and engineering. Topics covered include general corrosion, testing, corrosion characteristics, preventive measures, materials construction and performance, and equipment for many industries. A tip sheet is available at <http://www.csa.com/support/QRC.pdf>.
- **Energy Central Professional** <http://pro.energycentral.com/>
Energy Central provides a broad base of information products - news, directories, events, databases, books, periodicals, reports - all focused on the electric power industry. In addition, this database offers premium news and information service for the global power industry incorporating subscriber only email service and web based content. You can select the content you wish to be included in your daily email as well as customize the layout of your email. To use email alerts, you need to register using your pnl.gov email address. **Available to PNNL employees only.**

- **Inspec** <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearch&database=INSPEC>
The Inspec database provides citations and abstracts for journals, reports, conferences, and books in electrical and electronic engineering, physics, information technology and computer and control systems. A tip sheet is available at <http://digbig.com/4ywwwe>.
- **Knovel Online Books** <http://www.knovel.com/>
Search hundreds of reference works and find quick answers to science and engineering questions. This full-text database includes reference books and databases with embedded productivity tools. New information is added monthly. Below are some examples of the books accessible from the Knovel site.

Buried Pipe Design	Mechanisms and Mechanical Devices Sourcebook
Diesel Engine Reference Book	National Electrical Safety Code Handbook
Handbook of Corrosion Engineering	Piping Handbook
Marks' Standard Handbook for Mechanical Engineers	Pump Handbook
Mechanical Engineer's Reference Book	Root Cause Failure Analysis
- **MicroPatent** <http://www.micropat.com/cgi-bin/easylogin>
MicroPatent lets you simultaneously search the full-text of US, European, Patent Cooperation Treaty (WO), Great Britain, German and French patent records as well as the front page of Japanese patent documents. PDF images of US, European and Patent Cooperation Treaty documents may be downloaded at no cost **This product is available to PNNL staff only**. The tip sheet will get you started <https://library.pnl.gov/tipsheet/micropat.pdf>.
- **NTIS** <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearch&database=4>
NTIS, National Technical Information Service, is a resource for U.S. government-sponsored research and worldwide scientific, technical, engineering, and business-related information. NTIS includes citations and abstracts for reports, journal articles, data files, computer programs and audio visual products.
- **Pollution Abstracts** <http://www.csa.com/htbin/dbrng.cgi?username=mur3&access=mur3003&db=pollution-set-c&adv=1>
Pollution Abstracts covers atmosphere, emissions, mathematical models, effects on people and animals, and environmental action in response to global pollution issues. It includes material from conference proceedings, technical documents and journals. For search tips consult the tip sheet at <https://library.pnl.gov/tipsheet/polltox.pdf>.
- **Web of Science** <http://isiknowledge.com/wos>
This Web-based version of Science Citation Index is a multidisciplinary database covering all fields of engineering. **This product is available to PNNL staff and at the library user stations only**. A tip sheet is available at <http://scientific.thomson.com/media/scpdf/webofsciencegrc.pdf>.

Technical Reports: <https://library.pnl.gov/resourcebysubject.asp?subjectid=56>

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- **DOE Energy Citations Database** <http://www.osti.gov/energycitations/>
This site provides access to DOE publicly available citations from 1948 through the present, with links to some full-text materials. **The database is freely available to the public.**
- **DOE Information Bridge** <http://www.osti.gov/bridge/>
This site provides full-text reports published after 1995 by DOE and DOE contractors. **The database is freely available to the public.**
- **DOE Reading Room Catalog** <http://rrcatalog.pnl.gov/>
The catalog contains records for more than 25,000 reports issued by Hanford contractors, including links to more than 4,000 electronic full-text items. **The catalog is freely available to the public.**
- **Science Research Connection** <http://www.osti.gov/src>
Search approximately four million bibliographic records and over 125,000 full-text documents spanning more than six decades of DOE research. The database includes international information for those who register. **Available DOE and DOE contractors. Requires registration for full functionality.**

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