



Technology Collection

Engineering, high technology, material science, computing, physics and aerospace

THE TECHNOLOGY COLLECTION combines the Advanced Technologies & Aerospace Database, and the Materials Science & Engineering Database. Faculty, graduate, and post-graduate students will find comprehensive coverage from thousands of full-text titles including peer-reviewed journals, trade publications, books/monographs, conference proceedings, reports, newswires, video material, and much more.

For those who need to dive deep into their discipline with comprehensive literature reviews, we include a wide range of discipline-specific A&I databases for fast discovery of relevant content. Editorial input into content selection, controlled vocabulary, and indexing bring structure to the literature making it easier for researchers to efficiently discover relevant papers within their discipline.

Libraries sometimes struggle to justify the investment in specialized abstract databases that advanced researchers need because of their niche appeal. We have expanded the appeal of our specialized databases – leading to significant increases in usage – by simplifying the interface, including full text, and combining very specialist databases into broader subject groups, with content in adjacent disciplines.

The Technology Collection is a full-text database supported by specialized A&I files. Its content covers comprehensive scholarly output and is managed by an expert editorial team overseeing content selection and indexing supported by a controlled vocabulary, and comprises:

- **Advanced Technologies & Aerospace Database** –Includes the renowned Aerospace Database and provides full-text titles from around the world including scholarly journals, trade and industry journals, magazines, technical reports, conference proceedings, government publications, and more.
- **Materials Science & Engineering Database** –Indexes the world's most important materials science and engineering literature and combines it with carefully curated full text including scholarly journals, trade periodicals, magazines, technical reports, conference proceedings, government publications, and more.

Subject areas include:

- Advanced technologies
- Aerospace engineering
- Automotive engineering
- Bioengineering and biotechnology
- Chemistry and chemical engineering
- Civil engineering
- Communications
- Composites
- Computer science
- Construction materials
- Earthquake engineering
- Electronics and electrical engineering
- Engineered materials
- Environmental engineering
- Homeland security and terrorism
- Industrial and manufacturing engineering
- International relations
- Materials science
- Mathematics
- Mechanical engineering
- Metallurgy
- Nanoscience and nanotechnology
- New technologies
- Physics
- Polymer science
- Steels, alloys, and non-ferrous metals
- Telecommunications
- Transportation engineering

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About the Technology Collection

Full-text access and deep domain-focused discovery. This collection facilitates precision discovery with extensive full-text access to a vast range of literature covering advanced technologies, engineering, material science, and related topics. Full-text content differentiates ProQuest from A&I providers bringing value and access beyond other citation and abstract resources and higher usage.

Exploration of the latest research in less time. Faculty and graduate students, having limited time to review more and more content, place a high emphasis on abstract quality when judging a journal article's impact and importance. ProQuest offers researchers high quality abstracts within their domain (including foreign publications) to review and assess which articles to invest time in reading fully.

Meets a wide range of skill levels. The Technology Collection supports a wide range of search strategies for all types of users, from early and general researchers to domain specific search experts. The undergraduate can easily access full text from Google Scholar and other discovery services, while post-graduate and other advanced researchers can take advantage of discipline specific A&I files for more focused research.

Discovery of grey literature Reports, working papers, conference papers and proceedings, trade publications, and dissertations are useful for uncovering research that is so new that it has not yet made it past the peer review process.

Libraries will appreciate:

- **Key titles:** Researchers gain knowledge and expertise from highly cited titles with ongoing full-text such as Nature, Nature Methods, Trends in Biotechnology, Space Science Reviews, and thousands of others.
- **Wide scope of coverage:** The scope of coverage, journals, conference proceedings, dissertations, and more cannot be duplicated in a stand-alone aggregated database.
- **Return on investment:** The coverage and precision needed for advanced literature reviews is combined with a simple, user-friendly interface and access to full text, allowing beginners an accessible and rewarding search experience that translates to much higher usage for the library.
- **Ease of use.** Available on ProQuest, named as Best Interface in the 2015 *Charleston Advisor* Reader's Choice Awards: *"It is much more intuitive and easy to use than previous versions. It includes improved document viewing, easier navigation...Kudos to ProQuest."*

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