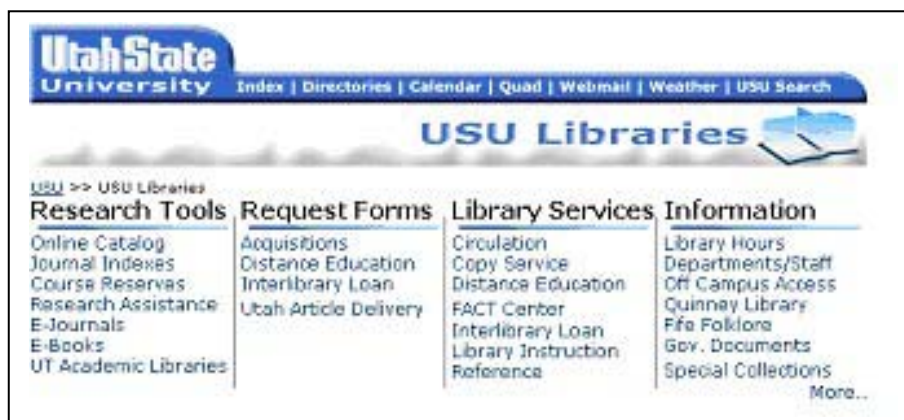


INTERMEDIATE LABORATORY – PHYX 3870-3880

Techniques for On-Line Journal Searches

The USU Library web site provides access to a wide array of very powerful search engines to identify and retrieve science journal articles. To begin a search, go to the USU library home page, <http://library.usu.edu/> as shown at right. Select “*Journal Indices*” and then “*Physical Sciences*”.



There are four particularly useful search engines.



Current Contents is an extensive database of many, many journals with lots of powerful search capabilities; the database is restricted at USU to only the most recent one or two years.

General Science Abstract covers many common and popular scientific journals. It is relatively easier to use.

SciFinder Scholar is an advanced search engine put out by the American Chemical Society. It covers an intermediate number of journals over a wide range of dates with a very powerful search engine.

Spin is the American Physical Society based search engine. It covers many physics and related research journals and allows access to the article through the APS achieves.

All four search engines cover the journals *Physics Today*, *American Journal of Physics*, *The Physics Teacher* and *Scientific American*. The web-based form for a search in the *General Science Abstract* engine is shown at right. This form is similar to those for the other three search engines.

<p>Current Contents Updated weekly, Current Contents is the premier current awareness database published in seven editions of which one is entitled - Engineering, Computing & Technology. The database displays the tables of contents from 7,000 journals and 2,000 books & proceedings. It provides complete bibliographic data for every item covered: articles, editorials, meeting abstracts, reviews, letters to the editor, etc. Coverage: Current two yrs. Access: USU Only. Purchased by: USU Libraries NOTE: License limits access to five simultaneous users.</p>
<p>General Science Abstracts ✓ General Science Abstracts indexes more than 100 English language general science journals. Subject fields include astronomy, atmospheric science, biology, botany, chemistry, earth science, environment and conservation, food and nutrition, genetics, mathematics, medicine and health, microbiology, oceanography, physics, physiology and zoology. Coverage: 1984 to date. Access: USU Only. Purchased by: UALC</p>
<p>SciFinder Scholar SciFinder Scholar integrates the following Chemical Abstract's sections: <ul style="list-style-type: none"> ● CAGbus (Chemical Abstracts): 1907 to date. ● CAS Registry: 1957 to date. ● CASREACT: Articles, 1974 to date, Patents, 1982 to date. ● CA Patent Index: 1947 to date. ● CHEMLIST - Registered Chemicals Listing Coverage: Varies. Access: USU Only. Purchased by: USU Libraries. NOTE: Must download SciFinder client software. One concurrent user.</p>
<p>SPIN SPIN database (Searchable Physics Information Notices) provides indexing and abstracting of major American and Russian physics and astronomy journals. It contains abstracts of over 80 scientific journals published by the American Institute of Physics and its Member Societies as well as selected articles from other journals, totaling close to 1 million records. It is also possible to browse the SPIN Journals collection which allows for full-text access to several of the journals. Coverage: 1975 to date. Access: Public. Purchased by: Phys from AIP</p>