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, <u>http://library.usu.edu/</u> as shown at right. Select "*Journal Indices*" and then "*Physical Sciences*".

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There are four particularly useful search engines.

Alphabetical Listing	Online Journal Indexes			
A B C D E F G H I J K L M N O P Q R S T U V W X	Physic al Sciences = Best for basic research = Foll-test available			
YZ	Applied Science & Technology Abstracts V Indexes and abstracts articles from 410 journals. Journal coverage includes trade			
Subject Listing	and industrial publications, professional society journals, and subject specific titles. The areas covered include: aeronautics, computer technology,			
Agriculture Basic Research	engineering, mathematics, metallurgy, physics and telecommunications. Coverage: 1983 to date. Access: USU Only. Purchased by: <u>UALC</u>			
Biological Sciences	Computer Technology Collection			
Business Education	Computer Technology Collection Computer Technology Collection consists of the following computer related			
Engineering	journal indexes:			
Engineering Full-Text	Computer Abstracts International Database, 1987-Corrent			
Gov't Publications	Computer and Information Systems Abstracts, 1981-Current			
Humanities & Arts	Disternet & Personal Computing Abstracts, 1989-Current			
Law	SeftBase, 1985-Oarrent			
	Click the hypertext links to search the Computer Technology Collection For			
Literature	additional information each individual journal index, click the 🙂 icon.			
Medicine	Coverage: Varies. Access: USU Only. Purchased by: USU Libraries			
Natural Resources	B			
Newspapers	CRC Handbook of Chemistry and Physics			
Physical Sciences	Published since 1913, the Handbook of Chemistry and Physics has been			

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.

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