

USING THE PURDUE LIBRARY
DATABASES TO FIND
ARTICLES, PAPERS,
AND THESES

September 2, 2008

The Databases

- Purpose: To help you find information
- Go to: <http://www.lib.purdue.edu>
- Under the **Search** Heading, select the **Databases** tab.
- From the dropdown menu, select a database.



The screenshot shows a navigation bar with four tabs: 'Articles', 'Catalog', 'eJournals', and 'Databases'. The 'Databases' tab is highlighted with a red oval. Below the tabs is a search area with the text: 'Find articles, datasets, research reports, indexes, and more from our database list. Select a resource and a brief description will appear below.' Below this text is a search form with a dropdown menu labeled 'Select a database' and a 'Go' button. At the bottom of the search area, there is a lock icon and the text: 'Purdue Career Account needed to search this resource from off-campus.'

A Few Good Databases To Try

- Aerospace & High Technology Database (1962 – present)
- Compendex (1884 – present)
- IEEE Xplore (1988 – present)
- Web of Science (1977 – present)
 - Includes a helpful cited reference search
- CRC Handbook of Chemistry & Physics
 - Includes math tables
- Dissertations and Theses
- EI Engineering Village 2
- SAE Aerospace Materials Specifications
- Jane's *All the World's Aircraft*
- This is only a few databases. Try some others on your own.

An Example: Web of Science

- Try the **Advanced Search**
- Interested in finding papers authored by Spalart, so the following is searched: **AU=Spalart**

Web of Science®

Advanced Search. Use 2-character tags, Boolean operators, parentheses, and set references to create your query. Results appear in the Search History at the bottom of the page.

Example: TS=(nanotub* SAME carbon) NOT AU=Smalley RE
#1 NOT #2 [more examples](#) | [view the tutorial](#)

AU=Spalart

Search

Current Limits: [\[Hide Limits and Settings\]](#) (To save these permanently, [sign in](#) or [register](#).)

Timespan:

All Years (updated 2008-08-31)

From 1900-1914 to 2008 (default is all years)

Citation Databases:

Science Citation Index Expanded (SCI-EXPANDED)--1900-present

Social Sciences Citation Index (SSCI)--1956-present

Arts & Humanities Citation Index (A&HCI)--1975-present

Restrict results by any or all of the options below:

Field Tags	Booleans
TS=Topic	AND
TI=Title	OR
AU=Author	NOT
GP=Group Author	SAME
SO=Publication Name	
PY=Year Published	
AD=Address	
OG=Organization	
SG=Suborganization	
SA=Street Address	
CI=City	
PS=Province/State	
CU=Country	
ZP=Zip/Postal Code	

All languages	All document types
English	Article
Afrikaans	Abstract of Published Item
Arabic	Art Exhibit Review

An Example: Web of Science

- 64 articles were found

Search History

Set	Results		Save History / Create Alert	Open Saved History
# 1	64	AU=Spalart <i>Databases=SCI-EXPANDED, SSCI, A&HCI Timespan=All Years</i>		

- Click on the **64** to see the articles

An Example: Web of Science

- Here is articles 9:


- 9. Title: [A new version of detached-eddy simulation, resistant to ambiguous grid densities](#)
Author(s): Spalart PR, Deck S, Shur ML, et al.
Source: **THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS** Volume: **20** Issue: **3** Pages: **181-195** Published: **JUL 2006**
Times Cited: **12**



- Click on the article title to get more information:

- Abstract
- Number of times cited
- Citation List

-  link to full text online

-  link—tells where paper version can be found in library or where PDF can be found in online journals. Often has a link to full text

- Notice that article 9 is cited twelve times by others. Click on the **12** to see articles that cite this article

An Example: Web of Science

- Also notice the output bar on the bottom of the article listing

Output Records

Step 1:

- Selected Records on page
- All records on page
- Records to

Step 2:

- Authors, Title, Source
 - plus Abstract
- Full Record
 - plus Cited Reference

Step 3: [\[How do I export to bibliographic management software?\]](#)

[Print](#) [E-mail](#) [Add to Marked List](#) [Save to EndNote Web](#) [Save to EndNote, RefMan, ProCite](#)

[Save to other Reference Software](#) [Save](#)

- Allows you to **print, email, or save** to text file the article listing to keep track of literature searches
- Also allows you to save in **EndNote** or **BibTeX** format (more on slide 20)
- **EndNote** is a program you can get to help organize references
- There are many free programs that use BibTeX format to organize references like **JabRef**

An Example: Web of Science – Cited Reference Search

- Click on **Cited Reference Search**
- Try searching for works that cite the author P.G. Saffman and that are dated between 1985 and 1990


All Databases | **Select a Database** | Web of Science | Additional Resources


Search | **Cited Reference Search** | Advanced Search | Search History | Marked List (0)

Web of Science®

Cited Reference Search. Find the articles that cite a person's work [View our Cited Reference Search tutorial.](#)

Step 1: Enter the author's name, the work's source, and/or publication year.

Cited Author: 
Example: O'Brian C OR OBrian C**

Cited Work: 
*Example: J Comput Appl Math**
[journal abbreviation list](#)

Cited Year(s)
Example: 1943 or 1943-1945

An Example: Web of Science – Cited Reference Search

- This gives a large list of documents that cite P.G. Saffman's work between 1985 and 1990.

Cited Reference Search. Find the articles that cite a person's work

Step 2 of 2: Select cited references and click "Finish Search."

Select the references for which you wish to see the citing articles, then click the "Finish Search" button.

Hint: Look for [cited reference variants](#) (sometimes different pages of the same article are cited or papers are cited incorrectly).

CITED REFERENCE INDEX

References: 1 - 45 of 45

Page 1 of 1 Go

Select	Cited Author	Cited Work [SHOW EXPANDED TITLES]	Year	Volume	Page	Article ID	Citing Articles **	View Record
<input type="checkbox"/>	SAFFMAN PG	ADV NONLINEAR WAVES	1985				1	
<input type="checkbox"/>	SAFFMAN PG	ADV NONLINEAR WAVES	1985		1		4	
<input type="checkbox"/>	SAFFMAN PG	ADV NONLINEAR WAVES	1985	111	1		4	

- To search for works that cite a specific article or paper, it is better to look up that article or paper using **Advanced Search** as in slide 4. Once the article or paper is found, click on the **Times Cited** link

An Example: Web of Science

- Web of Science comes with tutorials accessed at <http://scientific.thomson.com/tutorials/wok4/>

ISI Web of Knowledge Tutorial (v4.3)

Overview All Databases My Preferences My Saved Searches My Citation Alerts My Journal List

1 of 3 ►

Welcome to the *ISI Web of Knowledge*SM tutorial. This tutorial will give you an overview of the product and how to use it in your research.

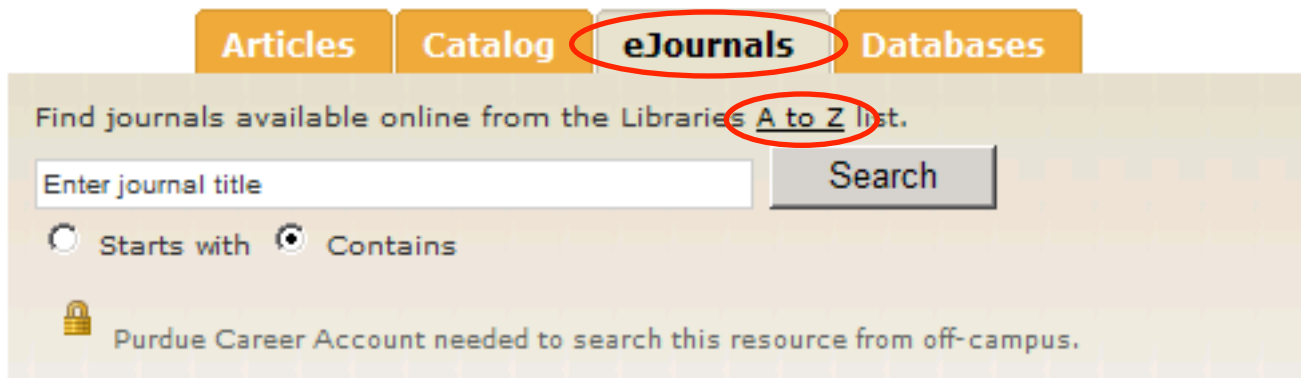
Use the Next Page ► and Previous Page ◀ navigation arrows in the banner to move through the tutorial. You can also click a section title (for example, My Journal List) to go directly to that topic.

1 of 3 ►

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Online Journals

- Purdue subscribes to many journals online. Articles can be downloaded directly from a website if you are using a Purdue computer or one connected to Purdue via VPN
- Go to: <http://www.lib.purdue.edu>
- Under the **Search** Heading, select the **eJournals** tab
- Type in the journal name
- Or search for journals in the **A-Z list**




Articles Catalog **eJournals** Databases

Find journals available online from the Libraries A to Z list.

Enter journal title Search

Starts with Contains

 Purdue Career Account needed to search this resource from off-campus.

Online Journals

- You can enter the journal's name or search alphabetically.
- Each journal listing shows the range of years of articles available online.
- Example: Search for **Journal of Fluid Mechanics**
- Volume 1-329 are available online in Journal of Fluid Mechanics Digital Archive
- Volume 330-present are available online in Journal of Fluid Mechanics
- To access, click on **Link to full text from Cambridge Univ. Press**

[Journal of fluid mechanics](#) [0022-1120]

Link to full text from [Cambridge University Press](#)

Available from 1997 volume: 330



[Journal of Fluid Mechanics Digital Archive](#) [1750-6859]

Link to full text from [Cambridge University Press](#)

Available from 1956 volume: 1 issue:1 until 1996 volume: 329



[Journal of non-Newtonian fluid mechanics](#) [0377-0257]

Link to full text from [Elsevier ScienceDirect Complete](#)

Available from 1976



Online Journals

- Some journals can be accessed directly while on a Purdue computer or connected via VPN to Purdue (more on this later, see <https://www.itap.purdue.edu/connections/vpn/>)
- Examples
 - AIAA: www.aiaa.org/journals
 - IEEE: <http://ieeexplore.ieee.org/search/advsearch.jsp>

Google Scholar

- Google has a search engine called Google Scholar that looks for articles and databases.
- <http://scholar.google.com>
- Nice features
 - Shows papers/articles that cite the searched paper/article.
 - Use the **Advanced Search** feature
 - If logged onto a Purdue computer or using VPN to Purdue, often articles listed by Scholar have links to full text.

Google Scholar

- Go to **Scholar Preferences**
 - In **Bibliography Manager**, you can set Scholar to give a link to the BibTeX entry for the articles you searched (**great for thesis writing**). (More about this on slide 17)

Number of Results Google's default (10 results) provides the fastest results.
Display results per page.

Results Window Open search results in a new browser window.

Bibliography Manager Don't show any citation import links.
 Show links to import citations into .


Save your preferences when finished and return to search.

Save Preferences

(Note: Setting preferences will not work if you have disabled cookies in your browser.)

Google Scholar

- Example: Look for articles by **D.J. Tritton** with the subject **rotation** using the **advanced search** option.

 **Advanced Scholar Search**

Find articles	with all of the words	<input type="text" value="rotation"/>
	with the exact phrase	<input type="text"/>
	with at least one of the words	<input type="text"/>
	without the words	<input type="text"/>
	where my words occur	anywhere in the article ▾
Author	Return articles written by	<input type="text" value="DJ Tritton"/> e.g., "PJ Hayes" or McCarthy
Publication	Return articles published in	<input type="text"/> e.g., J Biol Chem or Nature
Date	Return articles published between	<input type="text"/> — <input type="text"/> e.g., 1996

Google Scholar

- This search finds many articles; some are shown below.
- Note the **Cited by** link—links to those who have cited this article
- Note the **Import to BibTeX** link



[Web](#) [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

rotation author:"DJ Tritton"

Search

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 8 of 8 for rotation author:"DJ Tritton". (0.12 seconds)

[All Results](#)

Tip: Try removing quotes from your search to get more results.

DJ Tritton

[Stabilization and destabilization of turbulent shear flow in a rotating fluid](#) - [all 4 versions »](#)

[D Tritton](#)

DJ Tritton - Journal of Fluid Mechanics Digital Archive, 2006 - Cambridge Univ Press

[A Ibbetson](#)

... We consider turbulent shear flows in a rotating fluid, with the **rotation**

[A Bidokhti](#)

axis parallel or antiparallel to the mean flow vorticity ...

[Cited by 43](#) - [Related Articles](#) - [Web Search](#) - [Import into BibTeX](#) - [More Services at Purdue](#)

[Experiments on turbulence in a rotating fluid](#) - [all 2 versions »](#)

A Ibbetson, DJ Tritton - Journal of Fluid Mechanics Digital Archive, 2006 - Cambridge Univ Press

... effect of **rotation** of the whole ... **rotation** axis. The intensity measurements were made for a wide range of **rotation** rates; the other measure- ...

[Cited by 36](#) - [Related Articles](#) - [Web Search](#) - [Import into BibTeX](#) - [More Services at Purdue](#)

Google Scholar

- Clicking on the **Import into BibTeX** link gives the following:

```
@article{tritton2006sad,  
  title={{Stabilization and destabilization of turbulent shear flow in a rotating fluid}},  
  author={Tritton, DJ},  
  journal={Journal of Fluid Mechanics Digital Archive},  
  volume={241},  
  pages={503--523},  
  year={2006},  
  publisher={Cambridge University Press}  
}
```

- This information can be inserted into your **report, paper, or thesis bibliography** file if you use **LaTeX** with **BibTeX** to write a document.
- For more information on LaTeX, see LaTeX presentation!
 - A great tool for writing reports, theses, articles.

What if a Reference Is Not Available Online?

- Not all references that the Purdue databases or Google Scholar find are available online.
- Don't be afraid to go to the **Siegesmun Engineering Library** in the **Potter Engineering Center (POTR)**
 - They have an extensive collection of journals and conference proceedings on the first floor and basement.
 - Ask the library employees for help. They are friendly and willing to help.
 - Go make copies.
- Example: An article online may be a black and white scan of a document with color, and the color is important. Go see the paper copy at the library.

EndNote: A possibly helpful tool

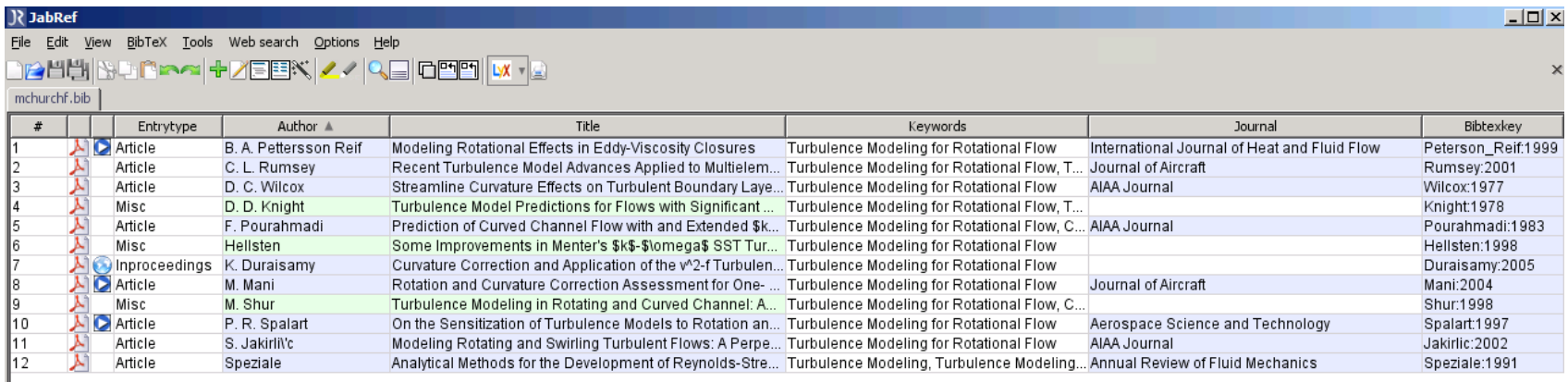
- **FORMATS** citations for list of references with many choices of style.
 - Cite-While-You-Write
 - Works in **Word** to let you insert citations as you go.
- **MANAGES** references
 - Helps you keep track of articles over the course of a Masters / PhD.
- Endnote stores all of the crucial information for a given article:
 - Bibliographic information, keywords, abstract, link to full text (if available), your own notes, link to pdf copy on your computer, etc.

EndNote

- This software is available on ITAP computer.
- It can be accessed from other computers or home by going to the **remote software site** (more about this later)
<https://goreMOTE.ics.purdue.edu>
- You can purchase it from ITAP. Details at
<https://www.itap.purdue.edu/support/licensing/search/list.cfm?agreementId=52>

JabRef

- This software is open-source and FREE.
- Manages references like EndNote
- It uses BibTeX format entries to keep track of articles, so it is good if you write reports in **LaTeX**.
- Get it at <http://jabref.sourceforge.net/>



The screenshot shows the JabRef application window with a menu bar (File, Edit, View, BibTeX, Tools, Web search, Options, Help) and a toolbar. The main area displays a table of references from a file named 'mchurchf.bib'. The table has columns for #, Entrytype, Author, Title, Keywords, Journal, and Bibtkey.

#	Entrytype	Author	Title	Keywords	Journal	Bibtkey
1	Article	B. A. Pettersson Reif	Modeling Rotational Effects in Eddy-Viscosity Closures	Turbulence Modeling for Rotational Flow	International Journal of Heat and Fluid Flow	Peterson_Reif:1999
2	Article	C. L. Rumsey	Recent Turbulence Model Advances Applied to Multielem...	Turbulence Modeling for Rotational Flow, T...	Journal of Aircraft	Rumsey:2001
3	Article	D. C. Wilcox	Streamline Curvature Effects on Turbulent Boundary Laye...	Turbulence Modeling for Rotational Flow	AIAA Journal	Wilcox:1977
4	Misc	D. D. Knight	Turbulence Model Predictions for Flows with Significant ...	Turbulence Modeling for Rotational Flow, T...		Knight:1978
5	Article	F. Pourahmadi	Prediction of Curved Channel Flow with and Extended \$k-...	Turbulence Modeling for Rotational Flow, C...	AIAA Journal	Pourahmadi:1983
6	Misc	Hellsten	Some Improvements in Menter's \$k-\omega\$ SST Tur...	Turbulence Modeling for Rotational Flow		Hellsten:1998
7	Inproceedings	K. Duraisamy	Curvature Correction and Application of the \$v^2\$-f Turbulen...	Turbulence Modeling for Rotational Flow		Duraisamy:2005
8	Article	M. Mani	Rotation and Curvature Correction Assessment for One- ...	Turbulence Modeling for Rotational Flow	Journal of Aircraft	Mani:2004
9	Misc	M. Shur	Turbulence Modeling in Rotating and Curved Channel: A...	Turbulence Modeling for Rotational Flow, C...		Shur:1998
10	Article	P. R. Spalart	On the Sensitization of Turbulence Models to Rotation an...	Turbulence Modeling for Rotational Flow	Aerospace Science and Technology	Spalart:1997
11	Article	S. Jakirlic	Modeling Rotating and Swirling Turbulent Flows: A Perpe...	Turbulence Modeling for Rotational Flow	AIAA Journal	Jakirlic:2002
12	Article	Speziale	Analytical Methods for the Development of Reynolds-Stre...	Turbulence Modeling, Turbulence Modeling...	Annual Review of Fluid Mechanics	Speziale:1991