



Mathematics Sources: A Library Quick Guide



Library of Science and Medicine

This guide is intended to help you get started in your search for mathematics literature at the Library of Science and Medicine (**LSM**) and the Mathematical Sciences Library (**MATH**). For more comprehensive information, find **Research Resources**, then **Subject Research Guides** on the Rutgers Libraries home page:

http://www.libraries.rutgers.edu/rul/rr_gateway/research_guides/research_guides.shtml .

For further information on our resources or guidance on searching a specific topic, please consult a Reference Librarian.

Indexes and Databases tell you what journal articles have been written on a subject or by a particular author and lead you to the most up-to-date research on a subject.

Electronic Databases: The most important tool for searching mathematics literature is MathSciNet (1940-present), available on the Libraries home page <http://www.libraries.rutgers.edu> by clicking on **Find Articles**, and then selecting **Indexes and Databases**. It includes the print copies of Mathematical Reviews and Current Mathematical Publications.

Rutgers current faculty, staff and students can access this database from off-campus; click on **Connect From Home** on the Libraries web page.

Another tool for searching mathematics literature is Google Scholar (<http://scholar.google.com/>). **Google Scholar** is a free database on the web and provides access to many full-text articles. It enables users to search articles from many academic publishers and preprint repositories.

The "citations citing" feature is similar to Science Citation Index in Web of Science. Google Scholar should be used as a supplement for MathSciNet and Web of Science.

Print Indexes: For literature published between 1930 and 1940, consult Zentralblatt für Mathematik und ihre Grenzgebiete.

- **MATH REF QA1 .Z4**
Zentralblatt für Mathematik und ihre Grenzgebiete (1931-1994)

Journals: Rutgers University Libraries carries an extensive collection of journals in Mathematics. Most mathematics journals are located at the Mathematical Sciences Library. A few of them are kept at LSM. Many journals are available online and can be accessed through **IRIS**, our online catalog (<http://www.iris.rutgers.edu/iris.html>). If the journal title is not found in **IRIS**, then check the **A-Z list** under electronic journal lists (http://www.libraries.rutgers.edu/rul/rr_gateway/ejournals/ejournals.shtml).

Reference Books: are shelved in the Reference section of each library and are identified by the notation **REF** on their Call Number. Circulating books are marked **STACKS** in IRIS and are shelved separately. The following are a few of the Mathematics reference books at **LSM** and **Math**.

Dictionaries/Encyclopedias

- **MATH REF QA5.W45 2003**
CRC concise encyclopedia of mathematics
- **MATH REF QA5.D69 1995**
Dictionary of mathematics terms
- **LSM REF QA76.15.D44313 1995**
Elsevier's dictionary of computer science and mathematics
- **MATH REF QA36 C85**
Current Mathematical Publications (current 2 years only)
- **Math REF QA47.J38 2004**
Handbook of mathematical formulas and integrals
- **LSM REF QA40.K598 1968**
Mathematical handbook for scientists and engineers
- **LSM REF QA5.M425 1997**
McGraw -Hill dictionary of mathematics

Internet sources: The following is a very selective list of internet sources that provide information on mathematics.

- <http://www.ams.org/global-preprints/>
Directory of Mathematics Preprint and e-Print Servers by American Mathematical Society
- <http://www.math.washington.edu/~prob/>
Probability Abstract Service
- <http://www.mathpreprints.com/math/Preprint/show/index.htm>
Elsevier Preprint Server
- <http://www.emis.math.ca/EMIS/mirror/IMU/medals/index.html>
Fields Medals and Rolf Nevanlinna Prize
- <http://www.ams.org/mathweb/>
Math on the Web (American Mathematical Society) - links to dictionaries, handbooks, directories and other reference tools.
- <http://mathworld.wolfram.com/>
Eric Weisstein's World of Mathematics
- <http://genealogy.math.ndsu.nodak.edu/>
Mathematics Genealogy Project

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Piscataway, NJ 08854 – 8009
732-445-2895
- Mathematical Sciences Library
Hill Center for Mathematical Sciences
Piscataway, NJ 08854-8019
732-445-3735