Mathematics Pathfinder

The purpose of this pathfinder is to introduce some of the resources available in Houston Cole Library on **Mathematic**s. The various types of library materials useful in research are described along with some examples of each type. This pathfinder is NOT a comprehensive listing of sources, but is intended to be a starting point from which patrons can begin their research according to their specific needs.

BASIC INTRODUCTION OR OVERVIEW MATERIAL can be found in:

REF QA 8.4 .H47 1997: *What is Mathematics, Really?*

SUBJECT HEADINGS can be identified by using the Library of Congress Subject Headings books located at the Information Desk on each floor. Books on MATHEMATICS can be located in the Library Catalog by entering a subject search. Books can be located in the Library Catalog by clicking on "Author/Title/Subject/Call Number" search type. Then click on the "Subject" radio button. Last, type in your subject and press the enter key.

Suggested subject headings for this topic: Mathematics.

Related headings include:
Algebra
Arithmetic
Calculus
Geometry
Logic

To browse the book stacks, here are some Library of Congress call numbers on the 9th floor.

QA1-99 General Mathematics, QA101-145 Algebra and Arithmetic, QA273-280 Probabilities and Mathematical Statistics, QA299.6-433 Analysis.

REFERENCE TOOLS

BIBLIOGRAPHIES -- list of books, periodical articles, and/or other materials by subject or author.

REF QA41.7.U83: *Use of Mathematical Literature*

DICTIONARIES AND ENCYCLOPEDIAS -- provide definitions for useful terms, and an overview of topics.

REF QA5.E48 2000: *Elsevier's Dictionary of Mathematics: in English, German, French and Russian*

REF QA5.F35 1999: *Facts on File Dictionary of Mathematics*

REF QA5 .S375 1994: *The Words of Mathematics: an Etymological Dictionary of Mathematical Terms used in English*

REF QA21.C645 1994: *Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences*

HANDBOOKS AND MANUALS -- cover broad subjects in a brief, concise manner and may include odd bits of information about a variety of topics (They may also be referred to as a compendium).

REF QA40.S76 1998: *Handbook of Mathematics and Computational Science*

REF QC61.A4813 1997: *[Kratkii fiziko-matematicheskii spravochnik. English] Concise Handbook of Mathematics and Physics*

GOVERNMENT PUBLICATIONS -- are primarily annual reports, studies, and statistics from the various departments and agencies of the government. They are cataloged and shelved like other books and microforms. (There is no separate collection of government publications in this library).

JOURNALS

Searching the Library Catalog by under the journal name can identify JOURNALS held by the library. Journal Titles on MATHEMATICS can be located in the Library Catalog by clicking on "Author/Title/Subject/Call Number" search type. Then click on the "Journal Title" radio button. Last, type in your journal title and press the enter key. Use these Electronic Databases to locate JOURNAL ARTICLES and other papers on MATHEMATICS: Elsevier Science Direct, MathSciNet, Wiley InterScience Mathematics and Statistics Journals

A few Journals which would report on this topic are: Periodicals QA 1 .A515 The American Mathematical Monthly, Periodicals QA 1 .N35 Mathematics Magazine, QA 1 .A51 American Journal of Mathematics. Also, scan for mathematics related periodicals in the current periodical section on the 9th floor.

INTERLIBRARY LOAN services are available to graduate students and faculty. Please ask a librarian about these services.

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