## FAST ACCESS TO MATHEMATICAL LITERATURE

## Searching the literature of mathematics by computer

## MATHFILE can save you hours of labor and help you to stay informed

## THE DATABASE

## WHAT IS MATHFILE?

- Mathematical Reviews (MR) on tape, beginning with Volume 45 (1973)
Contents of the 1973-1979 mr Cumulative Index
Reviews from all monthly mR issues, beginning with Volume 58 (July 1979)


## Complete

- complete review text, including mathematical expressions in literalized form (beginning with July 1979)
- complete mr subject classification codes (primary and secondary) of each review
- classification description for each code


## Corvenient

- It's fast: desired citations are obtained in minutes.
- You can get results online at your terminal, or order prints offline.
- It's current: online update available before the printed MR issue.


## Flexible

You can search on:

- author, co-author, editor, contributor, translator
- name of reviewer
- title words
- primary or secondary classification codes
- classification words
- any word in the review text (July 1979 -)
- literalized symbols
- journal name
- language of original article or book
- publication year of article or book
- issue of Mr
- ANY COMBINATION of the above, using boolean logic

You can print or display

- the count of entries
- one, some, or all citations
- complete MR record, with review (July 1979 -)
- bibliographic citation without review
- MR number only


## THE COMPUTER SYSTEM

## How Do I Use MATHFILE?

- You can request a search through the library at your institution; librarians are trained to do online searches quickly and efficiently.
- You yourself can search using a terminal (or microcomputer) with a coupler or modem, and a telephone.


## Where

## Is MATHFILE Available?

MATHFILE is available from three system suppliers
(vendors) which offer a variety of databases to the public:
Bibliographic Retrieval Services (BRS)
1200 Route 7, Latham, NY 12110
(800) 833-4707, (518) 783-1161 in New York

DIALOG Retrieval Services
3460 Hillview Avenue
Palo Alto, CA 94304
(800) 227-1927, (800) 982-5838 in California
(415) 858-3785

ESA-IRS
ESRIN, Via Galileo Galilei
00044 Frascati (Rome), Italy
Tel. (06)94011, Telex 610637 esrin i

## Which is Best For Me?

- Each vendor uses its own command language and software.
- Your librarian-searcher can explain the differences and help you decide.
- BRS/After Dark and DIALOG's Knowledge Index are designed for searches by untrained users, without need for prior instruction.


## How Much Does MATHFILE Cost?

- BRS and DIALOG are $\$ 42-\$ 63 /$ hour plus $\$ 7 /$ hour telephone charge.
- Long lists of citations printed offline can be ordered at $\$ 0.25$ - \$0.38/record.
- BRS/After Dark, available from 6 p.m. to 4 a.m. and weekends, costs $\$ 13 /$ hour, after a one-time initial fee of $\$ 75$ (includes a manual).
- Knowledge Index is $\$ 24 /$ hour, after an initial fee of $\$ 35$ (includes 2 hours free time and a manual).

WHAT COMPUTERIZED SEARCHING CAN DO FOR YOU

## Within minutes <br> MATHFILE can list:

- articles, books, or conference proceedings on any subject(s), broad or narrow
- papers written by an author or group of authors
- reviews by a specific reviewer
- works published in a given journal, or proceedings volume, or by a given publisher
- works published in a certain language or works NOT in that language
- papers with a word or combination of words in title and/or review
- papers assigned a specific primary or secondary classification code


## Typical Questions MATHFILE Can Answer

- How many of my papers have been reviewed by Mr?
- What are the most recent papers on the "monster" group?
- How many reviews have I written for MR since 1973?
- Did mR review Connor's article on the species-area relationship, published in The American Naturalist (1979)?
- Who is the publisher of "Orthogonal Designs" by A. Geramita?
- What methods (other than branch and bound) are used in the travelling ilesman problem? I am interested only in articles written in English, or those with an English summary.


## CAN I GET THE ORIGINAL DOCUMENTS?

Mathematical Reviews offers a document delivery service which will provide copies of articles it has reviewed.

Orders can be placed

- online through DIALOG (Dialorder) or BRS (Electronic Mail)
- directly with Mathematical Reviews (by mail or telephone)


## Speedy Delivery

- orders filled and mailed within 48 hours of receipt by MR or
- forwarded to the appropriate library for inter-library loan

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- $\$ 12$ for the first 10 pages, or less, and $\$ 2$ for each succeeding 10 pages, per article request
- copyright royalties added in compliance with the Copyright Clearance Center regulations


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