This guide to materials on optical disks is designed to aid an individual in pursuing the study of optical disk technology through a review of the literature in the collections of the Library of Congress. A brief explanation of the scope of the topic introduces the references, which are listed in the following categories: (1) introductions to optical disk technology; (2) subject headings; (3) basic texts; (4) additional titles; (5) directories and guides; (6) bibliographies; (7) conference proceedings; (8) reports on the Library of Congress Optical Disk Pilot Project; (9) abstracting and indexing services; (10) journals; (11) selected representative articles; (12) indexes to reports; (13) selected technical reports; (14) selected vertical file materials; and (15) associations that can provide additional information. (CGD)
OPTICAL DISK TECHNOLOGY


Compiled by Joanna Evans & Constance Carter

November 1987

SCOPE: Optical disks are assuming a significant role in information storage and retrieval in the 1980's. Additionally, they have some potential for the preservation of knowledge for generations to come. From write-once disks and read-only memory to erasable disks, the technology is now being applied more widely in libraries, businesses, and educational institutions. Because optical disk storage systems hold the promise of providing high-density storage inexpensively, managers are investigating this technology as an economical means for storing and preserving records. Optical disk systems permit mass storage of images—both analog and digital—which can be coupled with the organizing and retrieving power of a computer. A single disk, for instance, could contain the text of a publication as massive as the Encyclopaedia Britannica.

This compilation lists sources to aid an individual in pursuing the study of optical disk technology through a review of the literature in the collections of the Library of Congress. Not intended to be a comprehensive bibliography, this Tracer Bullet is designed—as the name of the series implies—to put the reader "on target."

INTRODUCTIONS TO THE TOPIC

All about optical disks. Datapro 70, v. 2, Apr. 1987: 70D6-001LH-101--70D6--001LH-111. Computer shelf*

For latest update, see Datapro 70 notebooks in Science Reading Room.


*Available in the reference collection, Science Reading Room
SUBJECT HEADINGS used by the Library of Congress, under which books on optical disk technology can be located in most card, book, and online catalogs, include the following:

OPTICAL DISKS (Highly relevant)
OPTICAL STORAGE DEVICES (Highly relevant)
OPTICAL STORAGE DEVICE INDUSTRY (Highly relevant)
VIDEO DISCS (Highly relevant)
CD-ROM (Relevant)
COMPACT DISCS (Relevant)
COMPUTER STORAGE DEVICES (Relevant)
LASER RECORDING (Relevant)
OPTICAL DATA PROCESSING (Relevant)

BASIC TEXTS


   DataDrive.


   Bibliography: p. 79-89.

ADDITIONAL TITLES


   "A compilation of articles written by people who have recognized the potential of CD ROM and have become involved in the new technology."


Optical discs for storage and access in ARL libraries. Washington, Office of Management Studies, Association of Research Libraries, 1987. 111 [i.e. 133] p. (Systems and Procedures Exchange Center. Kit #133) Pamphlet box* "Kit provides a sample of excerpts from technical and planning documents contributed by several ARL members which are planning to install or have already implemented optical disc technology."


DIRECTORIES AND GUIDES


BIBLIOGRAPHIES


CONFERENCE PROCEEDINGS


LIBRARY OF CONGRESS OPTICAL DISK PILOT PROJECT


Pamphlet box*


Pamphlet box*


Pamphlet box*


Pamphlet box*


Pamphlet box*


ABSTRACTING AND INDEXING SERVICES that index relevant journal articles and other literature are listed below. Some suggested terms are given as aids in searching.

ACM Guide to Computing Literature (1977-) QA75.5.A75a*
See: Optical

Applied Science & Technology Index (1913-) Z7913.I7*
See: Erasable Optical Memories
Optical Storage Devices
Read Only Optical Memories
Write Only Optical Memories

Computer & Control Abstracts (Science Abstracts--Series C) (1966-)
QA76.C548*
See: Optical Disc Storage
Video and Audio Discs

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room.
JOURNALS that often contain articles on optical disk technology are

- Byte QA76.5.B9
- CD-ROM Review N6CPR
- Datamation T175.M26
- EDN (formerly Electrical Design News) TK1.E266
- Electronics TK7800.E4384
- IEEE Spectrum TK1.I15
- International Journal of Micrographics & Video Technology Z265.I565
- Library Hi Tech Z671.L699
- Optical Information Systems (formerly Videodisc and Optical Disk) TK5105.V52

SELECTED REPRESENTATIVE ARTICLES


REPORTS and other types of literature are indexed in the following guides:

Government Reports Announcements & Index (1946-) Z7916.G78*
See: Compact Disks
Optical Data Storage Materials
Optical Digital Discs
Optical Disks

Monthly Catalog of United States Government Publications (1895-)
Z1223.A18*
See: Headings beginning Optical Data Processing
Optical Disk
Optical Storage Devices

SELECTED TECHNICAL REPORTS


"PB86-856408."


"PB85-101517."


Peskin, A. M. Role of optical disk at computing centers. Upton, N.Y., Brookhaven National Laboratory, 1984. 7 p. BNL-35551**

"International Society for Optical Engineering meeting, Los Angeles, Calif., January 21, 1985."


Verhoeven, J. A. Th. Digital optical recording and data integrity. [Eindhoven, Neth., Optical Storage International, 198? 17 p.] Pamphlet box*


"Presented at the 1985 ASP-ACSM convention, Washington, D.C."

SELECTED MATERIALS available in the Science Reading Room pamphlet boxes include:


**Available in microform collection, Science Reading Room


ADDITIONAL SOURCES OF INFORMATION

Association for Information and Image Management (AIIM)
1100 Wayne Avenue
Silver Spring, Maryland 20910
Telephone: (301) 587-8202

SPIE—The International Society for Optical Engineering
(Formerly the Society of Photo-Optical Engineering)
P.O. Box 10
Bellingham, Washington 98227-0010
Telephone: (206) 676-3290