

## INDEX

- Abstracting services, 8, 9, 59-65.  
Association for Computing Machinery, 145.  
Automation of libraries, 53-68; critique and cost of, 138-65.  
Avram, Henriette, 142.  
Axford, William, 140.
- Barnett, M. P., 155.  
Batch system: serials, 70-72; catalogs, 95-96.  
Biomedical Communications Network (BCN), 57, 64, 65, 66, 161.  
Biomedical Library, University of California (Los Angeles), *passim*, 69-81, 141-42, 159, 161.  
Book order system. *See* On-line book order system.  
Book storage and retrieval, 7.  
Boulding, Kenneth, 144.
- California, University of (Los Angeles): Biomedical Library, *passim*, 69-81, 141-42, 159, 161.  
*Chemical Abstracts*, 8, 9, 59.  
Computer editing, 4, 95.  
Computer hardware and software, 25-26, 77-78, 83, 86+, 94, 110-11, 115-18, 129-35, 141.
- Computer time sharing, 5, 66-67, 71, 77, 161-62.  
Computer: value for libraries, 30, 53-56; critique and cost of, 138-65.  
Consortia, on-line computers, 161-62.
- DASD (Direct Access Storage Devices), 4.  
DB/DC (Data Base/Data Communications) systems, 6, 7.  
*Drug Literature Index (DLI)*, 59.
- Editing, use of computer, 4, 95.  
*Excerpta Medica*, 59-60, 61.  
Excerpta Medica Foundation, *Drug Literature Index*, 59.
- Files and indexes: organization of, 7-10, 17-19; services, 59-65, 95-96; usage of, 104-05; capacity of, 133-135.
- Food and Drug Administration, 8.
- Golub, Harvey, 145.  
Gray, James Morris, 96.
- Hardware and software. *See* Computer hardware and software.  
Harvard University: on-line system at, 140-41.

- Health Sciences, Library of the, 65, 66.
- IBM STAIRS operating system, 60.
- Index and files: organization of, 7-10, 17-19; services, 59-65, 95-96, 164; usage of, 104-05; capacity of, 133-135.
- Index Medicus*, 16, 59.
- Information: costs of, 10-15, 70-72, 145-55, 159-60, 163-64.
- Kansas: Public Schools Library system, 94-108.
- Kaser, David, 163.
- Kilgour, Frederick, 30, 144, 159.
- Library automation, 53-68; critique and cost of, 138-65.
- Library budget constraints, 139, 141-42.
- Library loans: on-line system for, 56-59, 70.
- Library of Congress, 4, 5, 11, 24.
- Library of the Health Sciences, 65, 66.
- Lipetz, Ben-Ami, 24.
- Los Gatos Library Management System, 8, 9, 14.
- Mahan, Thomas, 43.
- MALIMET (Master List of Medical Indexing Terms), 60.
- MARC system, 5, 9, 11, 16, 20, 67, 78, 83, 109+, 161, 162.
- McKinsey & Company: survey of computer efficiency, 145.
- Medical uses of on-line systems, 65-66.
- Melcher, Daniel, 140.
- MT/ST (Magnetic Tape/Selectric Typewriter), 4, 11, 141; costs of, 153.
- National Academy of Sciences: report on *Libraries and Information Technology*, 10.
- National Advisory Commission on Libraries, *On the Economics of Library Operations*, 142.
- National Commission on Libraries, *Libraries at Large*, 159.
- National Library of Medicine: Bio-medical Communications Network, 8, 11, 57, 60-61, 64, 65, 66, 161; graph of on-line users, 62.
- National Union Catalog, 5, 9.
- New York, State University of: on-line computers, *passim*, 54-68.
- New York Technical Services Librarians, 142.
- New York Times Information Bank, 141.
- Northwestern University Library: on-line system at, 82-93, 141, 159.
- Ohio College Library Center, 141, 161.
- Ohio State University: on-line hardware at, 25-26, 141.
- On-line book order system: effect on workload, 31-35, 38, 41-43, 44, 53; costs of, 31, 32, 35, 45-53; print-out, 34; accounting procedures of, 35-36, 48-53; flagwords in, 37-38; author search program of, 38-40; purchase orders of, 40-42, 48, 50-51; use in libraries, 43-44.
- On-line computer consortia, 161-62.
- On-Line interactive systems: access to, 101; applications of, 15-20; cataloging with, 94-108, 121-29, 130; cost of, 10-15, 70-72, 99-101; critique of, 138-65; efficiency of, 101-04; error detection with, 91, 93, 101, 115; flowchart for, 30; hardware and software for, 77-78, 83, 86+, 94, 110-11, 115-18, 129-35; history of, 3-10; implementation of, 160-61; management aspects of, 105-08; multiple uses of, 61-65; operation of, 13, 80-81, 104-05, 120-21; ordering with, 113-15, 116, 117 (*See* On-line book order system); reference and retrieval systems, 18-19, 59-65, 73, 75, 78-79; screen formats for, 118-19; searching with, 110-13, 121-29, 132-33; staff morale with, 72, 92, 164; staff sharing with, 66-67; standardization of, 67-68, 162-63; workload of, 92-93.
- Oregon College of Education Library: use of on-line book order system, 44.

- Oregon State University Library: use of on-line book order system, *passim*, 29-53.
- Pacific Southwest Regional Medical Library Service, 70.
- Picturephone, 67.
- RAMAC disk file, 4, 17-18.
- Reference and retrieval systems, 18-19, 59-65, 73, 75, 78-79.
- Security: use of on-line equipment, 92.
- Serials holdings: printout, 73, 74, 75, 76-77; retrieval of, 78-79.
- Shelflist: Computer conversion of, 97-99, 141.
- Standard Register Source Record Punch, 91.
- Stanford University Library, *passim*, 109-36.
- Storage and retrieval systems, 7, 59-65. *See* Reference and retrieval systems.
- Taylor, Robert L., 153
- Technology: value for libraries, 30, 53-56; critique and cost of, 138-65.
- Time sharing, 5, 66-67, 71, 77, 161-62.
- UNISIST *Study Report on the Feasibility of a World Science Information System*, 60
- U.S. Atomic Energy Commission, Library of Technical Information Division, 14-15.
- Veaner, Allen, 140, 141, 142.
- Wisconsin, University of (Green Bay): computer cost analysis, 153.
- Wilson, H. W. Company 155