

DOCUMENT RESUME

ED 309 770

IR 052 818

AUTHOR Chartrand, Robert L.
 TITLE Information Technology in Our Time: Selected References. CRS Report for Congress.
 INSTITUTION Library of Congress, Washington, D.C. Congressional Research Service.
 REPORT NO CRS-88-733-SPR
 PUB DATE 9 Oct 88
 NOTE 38p.
 PUB TYPE Reference Materials - Bibliographies (131)

EDRS PRICE MF01/PC02 Plus Postage.
 DESCRIPTORS Business; Computers; Futures (of Society); *Information Systems; *Information Technology; International Relations; *Legislators; Microcomputers; Microforms; *Periodicals; Public Administration; *Reference Materials; *Systems Approach; Telecommunications; Video Equipment
 IDENTIFIERS *Information Policy; Privatization

ABSTRACT

This bibliography is intended to provide carefully chosen materials that may be of aid to legislators, staff professionals, and the general public in obtaining some insight into the realm of information technology and systems, including computers, telecommunications, microform systems, audio and video devices, and the so-called "analytical approach." The bibliographic items listed comprise both "classics" in this field and publications of more recent vintage, as well as reference materials and general periodicals dealing with these topics. Citations are listed under nine headings: (1) Information Technology Tools and Techniques; (2) Information Technology and Governmental Management; (3) Information Technology and the Legislator; (4) Information Technology and Business; (5) Information Technology and Society; (6) Information Technology and International Activities; (7) Information Technology and the Future; (8) Information Technology Bibliographies, Encyclopedias, Thesauri, Dictionaries, and Directories; and (9) Information Technology Periodicals. Numerous official hearings, reports, and committee prints are listed, and highlighted topics include such problem areas as the right to privacy, research and development reporting, information access and policy, and legislator reliance on information services. Library of Congress call numbers are provided for items for which they are available. (BBM)

 * Reproductions supplied by EDRS are the best that can be made *
 * from the original document. *

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

CRS REPORT FOR CONGRESS

* This document has been reproduced as
received from the person or organization
originating it.

Minor changes have been made to improve
reproduction quality.

Points of view or opinions stated in this docu-
ment do not necessarily represent official
OERI position or policy.

INFORMATION TECHNOLOGY IN OUR TIME:
SELECTED REFERENCES

Robert L. Chartrand
Senior Fellow in
Information Policy and Technology



ED309770

CRS

October 9, 1988

BEST COPY AVAILABLE

CONGRESSIONAL
RESEARCH
SERVICE

THE LIBRARY
OF CONGRESS



Full Text Provided by ERIC

IR052818

The Congressional Research Service works exclusively for the Congress, conducting research, analyzing legislation, and providing information at the request of committees, Members, and their staffs.

The Service makes such research available, without partisan bias, in many forms including studies, reports, compilations, digests, and background briefings. Upon request, CRS assists committees in analyzing legislative proposals and issues, and in assessing the possible effects of these proposals and their alternatives. The Service's senior specialists and subject analysts are also available for personal consultations in their respective fields of expertise.

INFORMATION TECHNOLOGY IN OUR TIME: SELECTED REFERENCES

SUMMARY

The significant increases in the creation and use of advanced information technologies and services is affecting institutions in both public and private sectors, and the entire population of our Nation. This report reflects this trend, emphasizing the emergence of computers and telecommunications, as contained in a wide range of books, periodical writings, and congressional studies.

The references are organized under the following categories:

- o Information Technology Tools and Techniques
- o Information Technology and Government Management
- o Information Technology and the Legislator
- o Information Technology and Business
- o Information Technology and Society
- o Information Technology and International Activities
- o Information Technology and the Future
- o Information Technology Bibliographies, Encyclopedias, Thesauri, Dictionaries, and Directories
- o Information Technology Periodicals

This compilation of sources items provides both an overview of and selective insight into the applications and implications of information technology in our time.

CONTENTS

I.	INFORMATION TECHNOLOGY TOOLS AND TECHNIQUES.....	3
II.	INFORMATION TECHNOLOGY AND GOVERNMENTAL MANAGEMENT.....	7
III.	INFORMATION TECHNOLOGY AND THE LEGISLATOR.....	11
IV.	INFORMATION TECHNOLOGY AND BUSINESS.....	15
V.	INFORMATION TECHNOLOGY AND SOCIETY.....	19
VI.	INFORMATION TECHNOLOGY AND INTERNATIONAL ACTIVITIES.....	25
VII.	INFORMATION TECHNOLOGY AND THE FUTURE.....	31
VIII.	INFORMATION TECHNOLOGY BIBLIOGRAPHIES, ENCYCLOPEDIAS, THESAURI, DICTIONARIES, AND DIRECTORIES.....	33
IX.	INFORMATION TECHNOLOGY PERIODICALS.....	37

INFORMATION TECHNOLOGY IN OUR TIME: SELECTED REFERENCES

Nowhere in the world today have the utilization and application of computers and other "information technologies" been greater than in American society. During the past quarter-century, information-based tools, techniques, and systems have been incorporated into nearly every aspect of our Nation's day-to-day operations. From getting a weekly paycheck to transacting bank business, purchasing groceries to charging luxuries, visiting the doctor for an examination to motivating children in a classroom, working on the job to running a home-based personal computer, information technology is fulfilling key roles in such processes. America truly has entered into Herman Kahn's "Post-industrial Society."

As this technology continues to grow, there has evolved a recognized need for the Nation's leadership, professionals, academics, and citizenry to understand the many uses of computers, telecommunications, microform systems, audio and video devices, and the so-called "analytical approach." While there currently exists a wealth of monographs, scholarly texts, and periodical articles in these areas, the purpose of this bibliography is to provide carefully chosen materials that may be of aid to legislators, staff professionals, and the general public in obtaining some insight into the realm of information technology and systems.

The bibliographic items included in this text are comprised of noted "classics" in the field of information technology and systems, while others are of more recent vintage. Each of the cited items is placed, for ease of use, into one of the several categories listed below. The Library of Congress call

numbers are given, where available, at the right side of each bibliographic entry. Due to the ever-increasing amount of professional journals and magazines dealing with the topics under discussion, a ninth section covering general periodicals has been included.

- INFORMATION TECHNOLOGY TOOLS AND TECHNIQUES
- INFORMATION TECHNOLOGY AND GOVERNMENTAL MANAGEMENT
- INFORMATION TECHNOLOGY AND THE LEGISLATOR
- INFORMATION TECHNOLOGY AND BUSINESS
- INFORMATION TECHNOLOGY AND SOCIETY
- INFORMATION TECHNOLOGY AND INTERNATIONAL ACTIVITIES
- INFORMATION TECHNOLOGY AND THE FUTURE
- INFORMATION TECHNOLOGY BIBLIOGRAPHIES, ENCYCLOPEDIAS, THESAURI, DICTIONARIES, AND DIRECTORIES
- INFORMATION TECHNOLOGY PERIODICALS

Congress, as well as the Federal executive branch, long has been interested in the configurations, applications, and processes of information systems. The inclusion of numerous official hearings, reports, and committee prints reflects the Federal Government's concern for such topics as hardware acquisition, software standards, systems design and applications, and manpower utilization. Coinciding with the increased use and impact of this array of information technologies has been the emergence of a variety of socio-economic and political problems. Highlighted among the following bibliographic sections are such problem areas as the right to privacy, research and development reporting, information access and policy, and legislator reliance on information services.

Thus, this infrastructure of source items will provide both an overview of and selective insight into the applications and implications of information technology in our time.

The author acknowledges the assistance of Terrence Lisbeth in the production of this bibliography.

I. INFORMATION TECHNOLOGY TOOLS AND TECHNIQUES

- Alkins, Arthur C. Computers and data processing today. 2nd ed. Homewood, Ill., Dow Jones-Irwin, 1986. 193 p. QA76.A548
- American Society for Information Science. Annual review of information science and technology. Martha E. Williams, ed. [White Plains, N.Y.] Knowledge Industry Publications, 1987. 437 p. (ARIST Series, v. 22) Z699.A1A65
- Athey, Thomas, and Robert W. Zmud. Introduction to computers and information systems. Glenview, Ill., Scott, Foresman and Co., 1986. 555 p. QA76.A8423
- Augarten, Stan. Bit by bit: an illustrated history of computers. New York, Ticknor and Fields, 1984. 324 p. QA76.17.A94
- Becker, Joseph. The first book of information science. [Oak Ridge, Tenn., U.S. Atomic Energy Commission, Office of Information Services, 1973] 91 p. Z699.B36
- Behling, Robert. Computers and information processing. Boston, Kent Publishing Co., 1986. 680 p. QA76.B345
- Berry, Adrian. The super-intelligent machine: an electronic odyssey. London, J. Cape, 1983. 182 p. QA76.B455
- Blotnick, Sully. Computers made ridiculously easy. New York, McGraw-Hill, Inc., [1984]. 198 p. TK7885.4.B56
- Carroll, John M. Computer security. 2nd ed. Boston, Butterworths, 1987. 446 p. HF5548.2.C29
- Simulation using personal computers. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1987. 243 p. QA76.9.C65 C37
- Cassel, Don, and Martin Jackson. Introduction to computers and information processing. Reston, Va., Reston Publishing Co., 1985. 673 p. QA76.C365
- Cavanaugh, Ann. The computer primer for gifted beginners. Chicago, Children's Press, 1984. 240 p. QA76.23.C38
- Cawkell, A. E., ed. Handbook of information technology and office systems. New York, Elsevier Science Publishing Co., Inc., 1986. 996 p. QA76.I5792

- Daggett, Willard R., Kamiran S. Badrkhan, and Benedict Kruse. Computers and information technology. Cincinnati, South-Western Publishing Co., 1985. 326 p. QA76.D26
- Enfield, Ronald L. The limits of software reliability. Technology review, v. 90, Apr. 1987: 36-40, 42-43. TK7885D
- Frates, Jeffrey, and William Moldrup. Introduction to the computer: an integrative approach. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1984. 554 p. QA76.F695
- Fuori, William M., and Lawrence J. Aufiero. Computers and information processing. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1986. 722 p. QA76.F83
- Gotlieb, Calvin C. The economics of computers: costs, benefits, policies, and strategies. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1985. 339 p. HC79.A9G67
- Hillis, W. Daniel. The connection machine. Scientific American, v. 246, June 1987: 108-115. TL.S5
- Hooper, Commodore Grace Murray, and Steven L. Mandell. Understanding computers. New York, West Publishing Co., 1984. 490 p. QA76.5.H67
- Kroenke, David M., and Randolph P. Johnston. Computers: an introduction. Santa Cruz, Ca., 1984. 654 p. QA76.K746
- Kurshan, Barbara, and Nancy Healy. Computer fundamentals. Reston, Va., Reston Publishing Co., Inc., 1984. 207 p. QA76.52.K87
- Leftkon, Richard G. Selecting a local area network. New York, American Management Association, 1986. 120 p. HD9696.C62 L445
- Lunin, Lois F., and Larry L. Learn, eds. Perspectives on telecommunication: principles, developments, prospects--introduction and overview. Journal of the American Society for Information Science, v. 37, Nov. 1986: 401-435. HE7600 Gen.
- McKeown, Patrick G. Living with computers. New York, Harcourt Brace Jovanovich, Inc., 1987. 672 p. QA76.M374
- Michie, Donald, and Rory Johnston. The knowledge machine. New York, William Morrow and Co., Inc., 1985. 300 p. Q335.M468
- Moreau, Rene. The computer comes of age: the people, the hardware, and the software. Translated by J. Howlett. Cambridge, Mass., MIT Press, 1984. 227 p. QA76.17.M6713
- Popyk, Marilyn K. Up and running! Microcomputer applications. Menlo Park, Ca., Addison-Wesley Publishing Co., Inc., 1987. 647 p. HF5548.2.P614

- Rademacher, Robert A. An introduction to computers and information systems. Cincinnati, South-Western Publishing Co., [1983]. 572 p. QA76.R223
- Ramirez, Anthony. Superconductors get into business. Fortune, v. 115, June 22, 1987: 114-116, 118. HF5001.F7
- Robinchaud, Beryl. Introduction to data processing. New York, Gregg Division, McGraw-Hill, Inc., [1983]. 356 p. HF5548.2.R6
- Sanders, Donald H. Computer concepts and applications. New York, McGraw-Hill, Inc., 1987. 545 p. QA76.S287
- Shelly, Gary B., and Thomas J. Cashman. Computer fundamentals for an information age. Brea, Ca., Anaheim Publishing Co., Inc., 1984. Various pagination by chapter. QA76.S5114
- Spencer, Donald D. Computers: an introduction. Columbus, Oh., Merrill Publishing Co., 1986. 348 p. QA76.S6762
- Technology '86. IEEE spectrum, v. 23, Jan. 1986: 34-87. TK1.I15
- Technology outlook. Electronics, v. 59, Oct. 16, 1986: 67-74, 76, 80-89, 94-99, 102-108. TK7800.E4
- Tomeski, Edward Alexander. People-oriented computer systems: the computer in transition. Melbourne, Fla., Krieger Publishing Co., Inc., 1983. 347 p. QA76.T58
- U.S. International Trade Administration. Office of Computers and Business Science and Electronics. A competitive assessment of the United States microcomputer industry: business/professional systems. Washington, U.S. Govt. Print. Off., 1986. 123 p. HD9696.C63U514937
- Van Tassel, Dennie L., and Cynthia L. Van Tassel, eds. The complete computer. [Chicago], Science Research Associates, [1983]. 264 p. QA76.24.C85
- Williamson, Mickey. Artificial intelligence for microcomputers: The Guide for Business Decisionmakers. New York. Brady Communications Co., Inc., 1986. 184 p. Q336.W57

II. INFORMATION TECHNOLOGY AND GOVERNMENTAL MANAGEMENT

- Bortnick, Jane. Support for information technology in science: the federal role. *Government information, quarterly*, v. 3, no. 3, 1986: 233-250.
- Bortnick, Jane and Nancy R. Miller. Scientific and technical information. *Science and technology in the USA* (Albert H. Teich and Jill H. Pace, eds). Detroit, Gale Research Co., 1986: 351-358.
- Chartrand, Robert Lee, guest ed. National information policy issues. *Bulletin of the American Society for Information Science*, June/July 1986, v. 12, no. 5: whole issue. Z699.A1A624a
 Contents.--Legislating information policy, by R.L. Chartrand.--Federal information resources management, by F.S. Reeder.--Government information dissemination policy, by J.T. Sprehe.--Intellectual property rights, by D.L. Garcia.--Freedom issues in satellite technology, by E.L. Young.--Computer crime and Federal legislation, by G. McLoughlin.--International information policy decisions, by J. Bortnick.--Disclosure, confidentiality, and privacy, by R.L. Chartrand.--Information skills for a strong economy, by S. Milevski.--Library and archives policy, by T.C. Bearman.
- The Presidency in the information age. *Bulletin of the American Society for Information Science*, v. 4, Dec. 1978: whole issue. Z699.A1A624a
 Contents.--The Presidency in the information age, by R.L. Chartrand.--A philosophy for managing information, by R. Harden.--Information sharing: a view from the Hill, by Representative Charlie Rose.--Services and systems of the Executive Office of the President, by C.P. Calo and S.T. Kadec.--Selected readings: Presidential use of information resources, by J.P. Emard.--Information in the Presidency: a journalist's view, by H. Sidey.--Planning and outreach, by E.K. Zimmerman.--An innovative approach to domestic policy analysis, by S.E. Freeman.--Sharing fiscal information: a legislative branch view, by A.M. Rivlin.
- Cothran, Dan. Small governments and data processing: selecting alternatives. *Small town*, v. 17, July-Aug. 1986: 24-28. TK7885F
- Etzioni, Amitai. A management computer for the President. *Technology review*, v. 86, Jan. 1983: 39-45. T171.M47,v.86
- Federal Software Management Support Center. Software aids and tools survey. Washington, U.S. Govt. Print. Off., 1985. 590 p. Report OIT/FSMC-86/002
- Hernon, Peter, and Charles R. McClure. Federal information policies in the 1980's: conflicts and issues. Norwood, N.J., Ablex Publishing Corp., 1987. 467 p. JK468.S4.H47

- Horton, Forest W., and Donald A. Marchand. Information management in public administration: an introduction and resource guide to Government in the information age. Arlington, Va., Information Resource Press, 1982. 588 p. JK468.P34.I53
- Improved services through technology. In Management of the United States Government, fiscal year 1988. [Washington] O.M.B. [1987]. p. 47-63. TK7885F
- Kops, Daniel W., Jr., et al. Managing municipal information needs using microcomputers. Chicago, American Planning Association, 1986. 22 p. JS344.E4M36
- Kraft, Donald H, ed. Perspectives on the Federal Government and health information: patterns, impact, expectations. Journal of the American Society for Information Science, v. 38, Jan. 1987: 25-75.
- Overman, E. S. Decentralization and microcomputer policy in State government. Public productivity review, v. 9, summer-fall 1985: 143-153. TK7885F
- The Paperwork Reduction Act of 1980: a section-by-section analysis of Public Law 96-511. Statistical reporter, Jan. 1981: 112-118. HA37.U15
- Rocheleau, Bruce. Microcomputers and information management: some emerging issues. Public productivity review, v. 9, summer-fall 1985: 260-270. TK7885F
- Rubin, Michael Rogers. Information economics and policy in the United States. Littleton, Co., Libraries Unlimited, Inc., 1983. 340 p. P96.E252U64
- Sequerth, John. Survey monitors computer use. American city and country, v. 102, July 1987: 46-56. TK7885F
- Thorin, Suzanne E., ed. Automation at the Library of Congress: inside views. Washington, Library of Congress Professional Association, 1986. 57 p. Z733U6A85
- U.S. Congress. General Accounting Office. ADP acquisitions: patent automation encountering major planning and procurement problems. Report to the Chairman, House Committee on Government Operations. Washington, G.A.O., 1986. 57 p. GAO/OMTEC-86-19
- ADP budget: information on two IRS computer projects; fact sheet for the Chairman, Subcommittee on Oversight, House Committee on Ways and Means. Washington, G.A.O., 1987. 15 p. GAO/IMTEC-87-26FS
- ADP workstations: SSA's \$64-million acquisition for fiscal year 1987 should be reconsidered. Washington, G.A.O., 1986. 7 p. GAO/IMTEC-86-34
- Computer matching: factors influencing the agency decisionmaking process. Briefing report to the Chairman, Subcommittee on Intergovernmental Relations and Human Resources, House Committee on Government Operations. Washington, G.A.O., 1986. 30 p. GAO/PEMD-87-3BR

- Decennial census: automation of the geographic support system. Briefing report to congressional requesters. Washington, G.A.O., 1987. 23 p. GAO/GGD-87-75BR
- Federal information sources and systems 1984: a directory issued by the Comptroller General. GAO/AFMD-85-3. Washington, U.S. Govt. Print. Off., 1980. 1178 p. (Congressional sourcebook series) Z7165.U5U513 1976
- Space operations: NASA's use of information technology. Report to the Chairman, Committee on Science, Space, and Technology. Washington, G.A.O., 1987. 67 p. GAO/IMTEC-87-20
- U.S. Congress. House. Committee on Government Operations. Electronic collection and dissemination of information by Federal agencies: a policy overview; twenty-eighth report. Report, 99th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1986. 70 p. JC660A
- Electronic collection and dissemination of information by Federal agencies. Hearings, 99th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1985. 592 p. KF27.G6629
- The Federal statistical system 1980 to 1985. Report prepared by Baseline Data Corporation for the Congressional Research Service for use by the Committee on Government Operations. Washington, U.S. Govt. Print. Off., 1984. 284 p. Committee Print 1805. HA37.U55F354
- U.S. Congress. House. Committee on Science and Technology. Science Policy Task Force. The impact of the information age on science: science policy study, v. 10. Hearings, 99th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1986. 225 p. Q127.U6
- U.S. Congress. House. Committee on Science and Technology. Task Force on Science Policy. The impact of information technology on science: science policy study background report no. 5. Report prepared by the Congressional Research Service, Library of Congress, 99th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1986. 51 p. Q127.U6I55
At head of title: Committee print. "Serial T"
- U.S. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Science, Research, and Technology. Hearing on the privatization of the National Technical Information Service, and H.R. 812, the National Quality Improvement Award Act of 1987. Hearing, 100th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1987. 413 p. LRS 87-5101
RBC 197
- National technical information service. Hearing, 100th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1988. 240 p. LRS 83-4082
RBC 1809
- Scientific and technical information (STI) activities: issues and opportunities. Prepared by Robert L. Chartrand and Jane Bortnick of the Congressional Research Service, Library of Congress and consultant Joseph Becker. Washington, U.S. Govt. Print. Off., 1978. 208 p. Q223.U526

- Scientific and technical information: policy and organization in the federal government (H.R. 2159 and H.R. 1615). Hearing, 100th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1987. 376 p.
LRS 87-10093
RBC 844
- U.S. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Transportation, Aviation, and Materials. GAO survey, Federal Government computer security. Hearing, 100th Congress, 1st session. No. 15. Washington, U.S. Govt. Print. Off., 1987. 31 p. KF27.S3997
- U.S. Congress. Office of Technology Assessment. Computer-based national information systems: technology and public policy issues. Washington, U.S. Govt. Print. Off., 1981. 166 p. TK5105.5.C636
- Federal Government information technology: electronic record systems and individual privacy. Washington, U.S. Govt. Print. Off., 1986. 152 p. OTA-CIT-296
- Federal Government information technology: management, security, and congressional oversight. Washington, U.S. Govt. Print. Off., 1986. 190 p. OTA-CIT-297
- Supercomputers: Government plans & policies. Washington, U.S. Govt. Print. Off., 1986. 28 p. OTA-BP-CIT-31
- U.S. Congress. Senate. Committee on Governmental Affairs. Information Age Commission Act of 1986. Report to accompany S. 786, 99th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1986. 6 p. JF533B
- U.S. Domestic Council. Committee on the Right of Privacy. National information policy: report to the President of the United States. Published by the National Commission on Libraries and Information Science. Washington, U.S. Govt. Print. Off., 1976. 233 p. KF5753.A873
- U.S. General Services Administration. Automatic data processing equipment in the U.S. Government: third and fourth quarter FY 1985 summary. [Washington] 38 p.
- Managing End User Computing in the Federal Government. Washington, Office of Information Resources Management, 1963. 32 p.
- Managing end user computing in the Federal Government, number two. Washington, Information Resources Management Service, 1986. 65 p.
- Walch, Victoria Irons. Information resources for archivists and records: a report and recommendations. Albany, N.Y., NAGARA, 1987. 42 p. CD3021.W35

III. INFORMATION TECHNOLOGY AND THE LEGISLATOR

- Blakely, Steve. Computers alter the way Congress does business. Congressional quarterly weekly report, v. 43, July 13, 1985: 1379-1382. JK1.C15
- Bortnick, Jane, Anthony Harvey, and Elaine C. Pulas. Electronic information for elected government: the U.S. Congress. Interdisciplinary science reviews, v. 8, no. 1, 1983: 44-55.
- Chartrand, Robert L., guest ed. Congress in the information age. Bulletin of the American Society for Information Science, v. 1, Apr. 1975: whole issue. Z699.A1A624a
 Contents.--Information for legislation: a Congressman speaks, by Senator John C. Culver.--Truth through communication, by E.W. Kaler.--New tools of the trade - Congress' budget machinery, by Representative Brock Adams.--The information interrelationship between Congress and the academic world, by H.M. Symmes.--Legislating responsive information services, by R.L. Chartrand and J.P. Emard.--Congress and computers - the future, by Representative Charlie Rose.--Lobbies as information sources, by R.W. Murphy.
- Information technology for Congress. Bulletin of the American Society for Information Science, v. 13, no. 3, Feb./Mar. 1987: whole issue. Z699.A1A624a
 Contents.--Information technology for congress, by R.L. Chartrand.--The implications of congressional computerization, by S.E. Frantzich.--A Member's view of a changing Congress, by Robert McClory.--Congress' evolving information network, by K.W. Hunter.--How Congress entered the computer information age, by B.F. Norton.--Information technology in the U.S. Senate, by J.K. Swearingen.--Information technology in the U.S. House of Representatives, by B.L. Alexander.--Congressional Budget Office information resources, by R.D. Harris.--Information systems for the information user, by J.C. Griffith.--What rank has Congress in the information war?, by A.A. Aines.--Advanced communications for Congress, by V.E. Henriques.
- Chartrand, Robert L. Congress more computer literate. Government computer news, v. 4, no. 12, July 5, 1985: 26-28.
- Information technology in the legislative process. In Annual review of information science and technology, v. 11. Martha E. Williams, ed. Washington, American Society for Information Science, 1976. p. 299-344. Z699.A1A65

- Information technology in the legislative process (1976-1985). In Annual review of information science and technology, v. 21. Martha E. Williams, ed. Washington, American Society for Information Science, 1986. p. 203-239. Z699.A1A65
- Chartrand, Robert L., and Jane Bortnick. State legislature use of information technology. Westport, Ct., Greenwood Press [1978]. 308 p. JK2495.U53
Also issued as House Document 95-271, 95th Congress, 1st session.
- Chartrand, Robert L., Jane Bortnick, and James R. Price. The legislator as user of information technology. Washington, Congressional Research Service, Library of Congress, 1987. 95 p. Report 87-983 S
- Chartrand, Robert L., Kenneth Janda, and Michael Hugo, ed. Information support, program budgeting, and the Congress. New York, Spartan Books [1968]. 231 p. JK1061.I5
Contents.--The congressional milieu - information requirements and current capabilities, by R.L. Chartrand.--Future improvements in congressional information support, by K. Janda.--External sources of information for Congress: the executive branch and the private sector, by W.T. Knox.--Automatic data processing as a major information tool, by Robert McClory.--Problems of inadequate information and staff resources, by Fred Schwengel.
- Eres, Beth Krevitt, ed. Legal and legislative information processing. Westport, Ct., Greenwood Press [1980]. 299 p. KF242.A1L37
Contents.--The quiet revolution of information technology in Congress, by B.F. Norton.--Information technology for Congress: a proven potential, by R.L. Chartrand.--Changing information needs of Congress, by N. Gregory.--An overview of State legislative information processing, by R.L. Chartrand and J. Bortnick.--Legislative data processing: Florida, by D. Johnson.--A comprehensive computer-assisted legislative program: Virginia, by J.A. Banks, Jr.--A legislative information system: Washington, by R.O. White, et al.--The emergence of computer-assisted research as an established legal tool, by J.L. Ebersole.--LEXIS, by K.D. Stanley.--WESTLAW, by T. Herman.--JURIS, by S.O. Croydon, Jr.--The need for computer-managed litigation files, by L.H. Berul, et al.--The computer as an aid to litigators, by R.S. McCormick and S.E. Rosen.--Computer technology in the courts, by L.P. Polansky.--Use of computerized business records as evidence, by W.A. Fenwick and G.K. Davidson.--The treasury enforcement communications system, by P. Coss.--The electronic barrister, by V.J. Yannacone, Jr.--The Responsa project, by Y. Choueka, et al.
- Frantzich, Stephen. Computers in Congress: the politics of information. Volume 4 of the series Managing Information. Beverly Hills, Ca., SAGE Publications, 1982. 285 p. JK1083.F7
- Goodrum, Charles. Computerization at the Library of Congress: the first twenty years. Wilson library bulletin, v. 57, Oct. 1982: 115-121. Z1217.W75
- Griffith, Jeffrey C. The SCORPIO system. Congressional Research Service review, Library of Congress, v. 8, Apr. 1987: 29-31. JF522
- Hamilton, Honorable Lee H. Computers in Congress. In Congressional record [daily ed.], Sept.26, 1985: E4225-E4226.

- James, Kathleen C. Hard-working House Postmaster Bob Rota shepherds a billion pieces of mail a year. Roll call, May 4, 1987: 16. JK1.R6
- Linden, Alan S., John Ragsdale, and WORDPRO, Inc. The potential of telecommunications for the Congress. Library of Congress CRS report prepared for the Committee on House Administration. Washington, Library of Congress, Jan. 4, 1985. 28 p.
- Paterson, Andrea. Automating the State legislatures. State legislatures, v. 11, May 1985: 9-16. JK2403.S76
- Rohrbach, Peter T. FIND: automation at the Library of Congress: the first twenty-five years and beyond. Washington, Library of Congress, 1985. 26 p. Z733.U6R66
- Scicchitano, Michael J. Legislative goals and information use. American politics quarterly, v. 9, Jan. 1981: 103-110. JF522
- Segal, Edward. Computerizing Congress. PC world, Nov. 1985: 145-151. QA76.8.I2594P3
- Strom, David. "Congress's think tank" links PCs, word processors via LAN. PC week, v. 4, no. 15, Apr. 14, 1987, section 2: C/9. QA75.5.P38
- Swearingen, John K. Presentation on the Senate office automation program before the National Institute for Management Research. Washington, L'Enfant Plaza Hotel, Dec. 10, 1985. 7 p.
- U.S. Congress. General Accounting Office. Information resources management plan, GAO/OIRM-86-1 long-range and tactical plan. Washington, G.A.O., 1986. 25 p.
- U.S. Congress. House. Committee on House Administration. Contemporary congressional use of information technology. Report prepared by Robert L. Chartrand, Jane Bortnick, and James R. Price of the Congressional Research Service, Library of Congress. Washington, U.S. Govt. Print. Off., 1988. 117 p.
- The electronic voting system for the United States House of Representatives. Washington, U.S. Govt. Print. Off., 1982. 14 p. JK1447.U54
- The legislative information and status system for the United States House of Representatives. Washington, U.S. Govt. Print. Off., 1979. 41 p. JK1447.U54
- Oversight into the operations of the House Information Systems. Hearing held before the Subcommittee on Office Systems, 100th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1987. 110 p. KF27.H656
- House Information Systems. H.I.S. Catalog of information and computer services. Washington, H.I.S., Nov. 1986. 35 p.

- U.S. Congress. House. Select Committee on Committees. The Congress and information technology. Staff report; prepared by the Library of Congress, Congressional Research Service, Science Policy Research Division. Washington, U.S. Govt. Print. Off., 1974. 277 p. JK1083.U5
- U.S. Congress. House. Working Group on Automatic Data Processing for the House of Representatives. First progress report of the Special Subcommittee on Electrical and Mechanical Office Equipment. Washington, U.S. Govt. Print. Off., 1969. 64 p. JK468.A8A56
- U.S. Congress. Senate. Committee on Rules and Administration. Annual report of the Technical Services Staff to the Chairman of the Committee on Rules and Administration. Washington, U.S. Govt. Print. Off., 1984. 40 p.
At head of title: 99th Congress, 2d session. Committee print.
- Oversight hearings on the operations and functions of the Office of the Sergeant at Arms of the United States Senate. Hearing, 99th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1987. 170 p. KF26.R8
- The use of computer and communications systems in the U.S. Senate. Hearing, 97th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1983. 130 p. KF26.R8

IV. INFORMATION TECHNOLOGY AND BUSINESS

- Bowen, William. The puny payoff from office computers. *Fortune*, v. 113, May 26, 1986: 20-24. HF5001.F7
- Browning, John. Information technology. *Economist*, v. 300, July 12, 1986: 5-8, 10-13, 16-17, 20-24. HG11.E2
- Bugg, Phillip W. Microcomputers in the corporate environment. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1986. 192 p. HF5548.2.B775
- Computer integrated manufacturing: trends, problems, strategies. *Automotive engineering*, v.95, Mar. 1987: 55-61. TL1.S5
- Danziger, James N., and Kenneth L. Kraemer. People and computers: the impacts of computing on end users in organizations. New York, Columbia University Press, 1986. 268 p. QA76.9.C66.D36
- Davis, Jo Ellen. Who's afraid of IBM? *Business week*, no. 3005, June 29, 1987: 68-72, 74. HF5001.B89
- Field, Anne R., and Catherine L. Harris. The information business: despite a slow start, many still see a bonanza in selling electronic data. *Business week*, no. 2961, Aug. 25, 1986: 82-86, 90. HF50C1.B89
- Fitch, Donald. Increasing productivity in the microcomputer age. Reading, Mass., Addison-Wesley, [1982]. 317 p. HD56.F58
- Fuhrman, Peter H., and Gregory F. Buck. Microcomputers for management decision making. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1986. 432 p. HD30.2.F84
- Guterl, Fred V. Computers think for business. *Dun's business month*, v. 128, Oct. 1986: 30-33, 35-37. TK7885D
- Huff, Kathryn. Developing and using microcomputer business systems. New York, West Publishing Company, 1987. 224 p. HF5548.2.H785
- Kiesler, Sara. The hidden messages in computer networks. *Harvard business review*, v. 64, Jan.-Feb.1986: 46-48, 52, 54, 58, 60. HF5001.H3
- Langendorf, Richard. Computers and decision making. *Journal of the American Planning Association*, v. 51, autumn 1985: 422-433. TK7885B
- Long, Larry. Computers in business. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1987. 609 p. HF5548.2.L586

- McDonough, Francis A., ed., Chairman of Forum conducted by Board on Telecommunications and Computer Applications. Managing microcomputers in large organizations. Washington, National Academy Press, 1985. 151 p.
HF5548.2M297
- Chapters: Small computer technology--where we are and where we're headed; small computers in large organizations--the implications; managing microcomputers--the issues; managing microcomputers--case studies.
- McLoughlin, Glenn. SEMATECH: new model for government-industry cooperation? CRS Review, June 1988. Washington, Congressional Research Service, Library of Congress, 1988: 22-23. TK6565A
- Messina, Richard J., and John C. Reece. Managing information for tomorrow. Public utilities fortnightly, v. 117, Mar. 6, 1986: 25-31. K16.U23
- Mitchell, Roger H., and Vincent A. Mabert. Robotics for smaller manufacturers: myths and realities. Business horizons, v. 29, July-Aug. 1986: 9-16. HF5001.B82
- Mullins, Carolyn J. Harnessing information technologies: a guide for business and professional people. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1984. 246 p. HF5548.2.M795
- Peck, Merton J. Joint R&D: the case of Microelectronics and Computer Technology Corporation. Research policy, v. 15, Oct. 1986: 219-231. HD2750U.S.C
- Petre, Peter. AT&T's epic push in computers. Fortune, v. 115, May 25, 1987: 42-44, 48, 50. HF5001.F7
- Sanders, Donald H. Computers in business: an introduction. Second edition. New York, McGraw-Hill Book Company, 1979. 461 p. HF5548.2.S23
- Schacht, Wendy H. and Glenn J. McLoughlin. Automation and small business: technological development and the competitiveness of U.S. industry. Washington, Congressional Research Service, Library of Congress, 1988. 43 p. Report 88-300 SPR T175A
- U.S. Congress. House. Committee on Small Business. Subcommittee on General Oversight and the Economy. Impact of robots and computers on the workforce of the 1980's. Hearings, 98th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1984. 255 p. KF27.S6414
- U.S. Congress. House. Committee on Education and Labor. Subcommittee on Labor Standards. New technology in the American workplace. Hearing, 97th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1983. 257 p. KF27.E348
- U.S. Congress. Office of Technology Assessment. Automation of America's offices, 1985-2000. Washington, U.S. Govt. Print. Off., 1985. 348 p. OTA-CIT-287
- Computerized manufacturing automation: employment, education, and the workplace. Washington, U.S. Govt. Print. Off., 1984. 471 p. OTA-CIT-235

- Effects of information technology on financial services systems.
Washington, U.S. Govt. Print. Off., 1984. 282 p. OTA-CIT-202
- The electronic supervisor: new technology, new tensions. Washington,
U.S. Govt. Print. Off., 1987. 139 p. OTA-CIT-333
- U.S. Congress. Senate. Automatic data processing and the small businessman.
Report prepared by Robert L. Chartrand, Louise G. Becker, and Warren H.
Donnelly of the Congressional Research Service, Library of Congress. 90th
Congress, 2d session. Washington, U.S. Govt. Print. Off., 1968. 148 p.
HF5548.2.U58
- U.S. National Commission for Employment Policy. Tenth annual report.
Includes policy statement on computers in the workplace. Washington, U.S.
National Commission for Employment Policy, 1985. 35 p. Report no. 18.
HD5720B
- Vallee, Jacques. The network revolution: confessions of a computer scientist.
Berkeley, Ca., And/Or Press, [1982]. 213 p. QA76.17.V34
- Watson, Thomas J., Jr. The greatest capitalist in history. Fortune, v. 116,
Aug. 31, 1987: 24-32, 34-35. HF5001.F7
- Wright, Robert. The information age. Sciences, v. 27, Jan.-Feb. 1987: 2-5.
Q1.S8147

V. INFORMATION TECHNOLOGY AND SOCIETY

- Bolter, J. David. Turing's man: Western culture in the computer age. Chapel Hill, University of North Carolina Press, [1984]. 264 p. QA76.9.C66
- Bowe, Frank. Making computers accessible to disable people. Technology review, v. 90, Jan. 1987: 52-59, 72. T171.M4
- Burnham, David. The rise of the computer state. New York, Vintage Books, 1984. 273 p. JC596.2.V5B87
- Chartrand, Robert L. Systems technology applied to social and community problems. New York, Spartan Books, 1971. 496 p. HN59.A5
- Chartrand, Robert L., guest ed. Information outreach through technology. [Special issue] The information society (Joseph Becker, ed.), v. 2, no. 2: 91-170. ISSN:0197-2243
 Contents.--Introduction, by R.L. Chartrand.--Cycle times of information, by J.G. Kendrick.--Telecommunications in rural America: an appraisal and a prediction, by E.L. Young and L.A. Bransford.--Computers: the newest technology for American farmers, by R.D. Lett.--Information technology in rural emergency management, by J.W. Morentz.--The challenge of the new information technologies: the need to respond to citizens' information needs, by M.G. Jones.--Information technology and the developing world: opportunities and obstacles, by J. Bortnick.
- Chartrand, Robert L., and Elizabeth Baldwin. Information services for agriculture: the role of technology. Washington, Congressional Research Service, Library of Congress, 1988. 56 p. 88-108 S
- Chartrand, Robert L., and James W. Morentz, ed. Information technology serving society. New York, Pergamon Press, [1979]. 150 p. Z699.I4733
- Clark, James F., and Kathy Brittain White. Computer confidence: a challenge for today. Cincinnati, Ohio, South-Western Publishing Company, 1986. 428 p. QA76.C5257
- Cleveland, Harlan, and Alex Molnar. Educating citizens and leaders for an information-based society. Educational leadership, v. 43, Mar. 1986: 62-66. L11.E443
- Computers and electronics. Science, v. 215, Feb. 12, 1982: whole issue. Contents.--Computers and electronics.--Graphics and software.--Scientific research and medicine.--Business and industry.--Communications and personal services.--Information storage and retrieval. Q1.S35,v.215

- Computers and home care. *Caring*, v. 6, June 1987: whole issue.
- Computers and the law. *Federal Bar news and journal*, v. 32, June 1985: 220-239. K6.E285
- Darling, David J. *Computers at home: today and tomorrow*. Minneapolis, Dillon Press, Inc., 1986. 77 p. QA76.52.D36
- Davies, Dick. *Information technology at work*. London, Heinemann Educational Books, Ltd., 1986. 156 p. QA76.D333314
- Democracy in an information society. *Information society* (Joseph Becker, ed.), v. 4, no. 1-2, 1986: whole issue (143 p.).
- Dowlin, Kenneth E. *The electronic library: the promise and the process*. New York, Neal-Schuman Publishers, [1984]. 199 p. Z678.9.D68
- Dreyfus, Hubert L., and Stuart E. Dreyfus. *Mind over machine: the power of human intuition and expertise in the era of the computer*. New York, Free Press of Macmillan, Inc., 1986. 231 p. Q335.D73
- Flynn, George J. *Medicine in the age of the computer*. Englewood Cliff, N.J., Prentice-Hall, Inc., 1986. 166 p. R858.F58
- Frates, Jeffrey, and William Moldrup. *Computers and life: an integrative approach*. Englewood Cliffs, N.J., Prentice-Hall, Inc., [1983]. 389 p. QA76.9.C66P7
- Freedman, Warren. *The right of privacy in the computer age*. New York, Quorum Books, 1987. 163 p. JC596.F74
- Graham, Neill. *The mind tool: computers and their impact on society*. Fourth edition. New York, West Publishing Company, 1986. 483 p. QA76.G672
- Guile, Bruce R., ed. *Information technologies and social transformation*. Washington, National Academy Press, 1985. 173 p.
- Hernon, Peter, and Charles R. McClure, eds. *Microcomputers for library decision making: issues, trends, and applications*. Norwood, N.J., Ablex Publishing Corp., 1986. 311 p. Z678.M48
- Hoffman, Lance J., ed. *Computers and privacy in the next decade*. Proceedings of the AFIPS Workshop. New York, Academic Press of Harcourt Brace Jovanovich, 1980. 215 p. JC596.2.U5C65
- Horton, Forest Woody, Jr., ed. *Understanding U.S. information policy: the infrastructure handbook*. [Washington], Information Industry Association, 1982. 133 p. P95.82.U6U52
Three supplementary volumes: v. 1, The resources for the information economy; v. 2, The participants in the information marketplace; v. 3, The assets of the information society.
- Inose, Hiroshi. *Information technology and civilization*. New York, W.H. Freeman, 1984. 263 p. Z1001.I56

- Ishikawa, Akira. Future computer & information systems: the uses of the next generation computer and information systems. New York, Praeger, 1986. 138 p. QA76.I74
- Kemeny, John G. Man and the computer. New York, Charles Scribner's Sons, [1972]. 151 p. QA76.5.K382
- Logsdon, Tom. Computers today and tomorrow. Rockville, Md., Computer Science Press, 1985. 425 p. QA76.5.L612
- Machine of the year: a new world dawns. Time, v. 121, Jan. 3, 1983: 12-39. AP2.T37,v.121
- Mandell, Steven L. Computers, data processing, and the law. St. Paul, West Publishing Co., [1984]. 233 p. KF390.5.C6M36
- Martin, James. Telematic society. Englewood Cliffs, N.J., Prentice-Hall, Inc., [1981]. 244 p. TK5101.M327
- McCorduck, Pamela. The universal machine. New York, McGraw-Hill, 1985. 305 p. QA76.M367
- McGuire, Francis A., ed. Computer technology and the aged: implication: and applications for activity programs. New York, Haworth Press, 1986. 119 p. RC952.5C64
- Naisbitt, John. From an industrial society to an information society. In Megatrends: ten new directions transforming our lives. New York, Warner Books, 1982. p. 11-38. HN59.2N34
- Oettinger, Anthony G. Information resources: knowledge and power in the 21st century. Science. v. 209, July 4, 1980: 191-198. Q1.S35,v.209
- Patron use of computers in public libraries. Bulletin OERI, Mar. 1986: whole issue (17 p.).
- Perrolle, Judith A. Computers and social change: information, property, and power. Belmont, Ca., Wadsworth Publishing Co., 1987. 297 p. QA76.9.C66P47
- Pool, Ithiel de Sola. Technologies of freedom. Cambridge, Ma., Harvard U. Press, 1983. 299 p. KF2750.P66
- Rahtz, Sebastian, ed. Information technologies in the humanities: tools, techniques and applications. New York, Halsted Press, 1987. 184 p. AZ105.I54
- Reinecke, Ian. Electronic illusions: a skeptic's view of our high-tech future. New York, N.Y., Penguin Books, 1984. 256 p. T14.5.R45
- Rennels, Glenn D., and Edward H. Shortliffe. Advanced computing for medicine. Scientific American, v. 257, Oct. 1987: 154-161. T1.S5

- Rheingold, Howard. Tools for thought: the people and ideas behind the next computer revolution. New York, Computer Book Division of Simon and Schuster, 1985. 335 p. QA76.R47
- Riccobono, John A. Use of electronic information technologies for non-school learning in American households. Report of findings from the 1985 Home Information Technology Study. Washington, U.S. Office of Educational Research and Improvement, Center for Statistics, 1986. CS 86-215.
- Ritchie, David. The binary brain: artificial intelligence in the age of electronics. Boston, Little Brown and Co., 1984. 212 p. Q335.R58
- Rosenberg, Richard. Computers and the information society. New York, John Wiley & Sons, 1986. 397 p. QA76.5.R58
- Rothman, Stanley, and Charles Mosman. Computer uses and issues. Chicago, Science Research Associates, Inc. of IBM, 1985. 442 p. QA76.R676
- Salerno, Lynn M. Computer briefing: using the trends for better managerial decisions. New York, John Wiley & Sons, 1986. 224 p. QA76.S275
- Savage, John E., et al. The mystical machine: issues and ideas in computing. 407 p. Reading, Mass., Addison-Wesley Publishing Co., 1986. 407 p. QA76.S334
- Sieber, Ulrich. The international handbook on computer crime: computer-related economic crime and the infringements of privacy. New York, John Wiley & Sons, 1986. 276 p. K5215.S54
- Simitis, Spiros. Reviewing privacy in an information society. University of Pennsylvania law review, v.135, Mar. 1987: 707-746. K25.N69
- Stoler, Peter. The computer generation. New York, N.Y., Facts on File, 1984. 154 p. QA76.5.S7825
- Technology outlook: the driving force: the insatiable demand for information. Electronics, v. 60, Oct. 15, 1987: 83-88, 95-97, 100-104, 111, 114, 121, 126, 1233-135, 140. TK7800.E4
- Time-Life Editors. Understanding computers: revolution in science. Alexandria, Va., Time-Life Books, 1987. 126 p. Q180.55.E4R48
- Trainer, Timothy N. Computer literacy: concepts and applications. Santa Cruz, Ca., Mitchell Publishing Co., 1984. 536 p. QA76.9.C64T73
- U.S. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture. Information technology for agricultural America. 97th, 2d session. Committee print prepared by the Congressional Research Service, Library of Congress. Washington, U.S. Govt. Print. Off., 1983. 358 p. S49.5.I47I54
- U.S. Congress. House. Committee on the Judiciary. Computer crime and computer security. Hearing, 99th Congress, 1st session on H.R. 1001 and H.R. 930. Washington, U.S. Govt. Print. Off., 1986. 230 p. KF27.J858

- U.S. Congress. House. Committee on Science, Space, and Technology. Subcommittees on Science, Research, and Technology, and on Aviation, Transportation, Materials. The computer security act of 1987. Hearings, 100th Congress, 1st session. Feb. 26, 1987. Washington, U.S. Govt. Print. Off., 1987.
"Serial No. 8."
- U.S. Congress. House. Committee on Science and Technology. Subcommittee on Investigations and Oversight. Information technology for emergency management. 98th Congress, 2d session. Report prepared by the Congressional Research Service, Library of Congress. Washington, U.S. Govt. Print. Off., 1984. 456 p. TK6570.P8C47
At head of title: Committee print. Serial HH
- U.S. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research and Technology. Information technology in education: perspectives and potentials. 96th Congress, 2d session. Committee print prepared by the Congressional Research Service, Library of Congress. Washington, U.S. Govt. Print. Off., 1981. 346 p. LB1028.3.C46
At head of title: Committee print. Serial QQQ
- U.S. Congress. Senate. Committee on the Judiciary. Subcommittee on Patents, Copyrights and Trademarks. Jointly with House. Committee on the Judiciary. Subcommittee on Courts, Civil Liberties, and the Administration of Justice. O.T.A. report on intellectual property rights in an age of electronics and information. Joint hearing, 99th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1986. 96 p. KF26.J863
- U.S. Congress. Office of Technology Assessment. Defending secrets, sharing data: new looks and keys for electronic information, OTA-CIT-310. Washington, U.S. Govt. Print. Off. Oct. 1987. 187 p. LRS 87-12304
SDI Loan
- Federal Government information technology: electronic surveillance and civil liberties, OTA-CIT-293. Washington, O.T.A., 1985. 72 p.
- Intellectual property rights in an age of electronics and information, OTA-CIT-302. Washington, U.S. Govt. Print. Off., 1986. 299 p. LRS 86-6486 SDI Loan
- Vidmar, Neil, and David H. Flaherty. Concern for personal privacy in an electronic age. Journal of communication, v. 35, spring 1985: 91-103. P87.J6
- Vitalari, Nicholas P., and Venkatesh, Alladi. In-home computing and information services: a twenty-year analysis of the technology and its impacts. Telecommunications policy, v. 11, Mar. 1987: 65-81. HE7601.T4
- Warner, Jean-Dominique. Computers and human intelligence. Englewood Cliffs, N.J., Prentice-Hall, 1986. 141 p. QA76.W24313

VI. INFORMATION TECHNOLOGY AND INTERNATIONAL ACTIVITIES

- Arnold, Erik, and Ken Guy. Parallel convergence: national strategies in information technology. London, Frances Pinter Publishers, 1986. 220 p.
HD9696.C62A76
- Beam, Alex. Atari Bolsheviks. Atlantic monthly, v. 257, Mar. 1986:28-32.
AP2.A8
- Bendahmane, Diane B., and David William McClintock, eds. Global environment, communications and agriculture. Washington, Department of State Publication, 1984. 144 p.
K3584.6
- Bortnick, Jane. National and international information policy. Journal of the American Society for Information Science, v. 36, no. 3, May 1985: 164-168.
- Brown, Clarence J. The globalization of information technologies. The Washington quarterly, winter 1988: 89-101.
D839.W3
- Bruce, Robert R., Jeffrey P. Cunard, and Mark D. Director. From telecommunications to electronic services: a global spectrum of definitions, boundary links and structures. Report of the study of telecommunications structures, International Institute of Communications. London, Butterworths, 1986. 597 p.
K4305.4.B78
- Business Roundtable. International information flow: a plan for action. New York, The Business Roundtable, Jan. 1985. 40 p.
- Bylinsky, Gene. The high tech race: who's ahead? Fortune, v. 114, Oct. 13, 1986: 26, 28, 30-37, 39-40, 42-44.
HF5001.F7
- Center for Strategic and International Studies. An American agenda for the global communications age. Summary of a conference. Washington, CSIS, 1987. 32 p.
- Chartrand, Robert Lee. Our China Adventure. Bulletin of the American Society for Information Science, v. 6, no. 4, Apr. 1980: 12-14. Z699.Z1
- Dizard, Wilson P. The coming information age. New York, Longman, 1982. 213 p.
- Dizard, Wilson P., and S. Blake Swensrud. Gorbachev's information revolution: controlling glasnost in a new electronic era. Boulder, Co., Westview Press, 1987. 99 p.
P92.S65D59

- Flamm, Kenneth. Targeting the computer: Government support and international competition. Washington, Brookings Institution, 1987. 266 p.
LRS87-4096
- Ganley, Oswald H., and Gladys Ganley. To inform or control? The new communications networks. New York, McGraw Hill, Co., 1982. 250 p.
HE7631.G23
- Goetz, Anne Marie. Information capacity and power in North-South relations: transborder data flow and the case of Brazil. Millennium, v. 15, spring 1986: 48-72.
JX1.M54
- Gottfried, Heidi. The internationalization of production, intra-core relations and the State: a case study of IBM and the British computer industry. Political studies, v. 34, Sept. 1986: 387-405.
JA1.P6
- Hill, Christopher T. Japanese technical information: opportunities to improve U.S. access. Washington, Congressional Research Service, Library of Congress, 1987. 55 p.
Report 87-818 S
- Horgan, Sherry M. Foreign data: is it safe in the United States data banks? California Western international law journal, v. 16, summer 1986: 346-372.
JX1.C25
- Howell, Thomas R., Steven F. Benz, and Alan W. Wolff. International competition in the information technologies: foreign government intervention and the U.S. response. Stanford journal of international law, v. 22, fall 1986: 215-262.
JX1.S7
- Hudson, Heather E. When telecommunications reach the village: the role of telecommunications in rural development. Norwood, N.J., Ablex Publishing Corporation, 1984. 154 p.
TK5102.5.H83
- International information issues. Journal of the American Society for Information Science, v. 36, no. 3, May 1985: whole issue. Z1007.A4
- Judge, Peter J. National information policy. Canberra, Parliamentary Library, Legislative Research Service, 1985. 115 p.
Z678.8.A8J83
- Jussawalla, Meheroo. Information technology and global interdependence. New York, Greenwood Press, 1988.
- Kotok, Alan, Paul Spishak, and Frances G. Burwell. Information, please. Foreign service journal, v. 64, Mar. 1987: 21-31. JX1.A53
- Kroloff, George, and Cohen, Scott. The new world information order. Report for the Senate Committee on Foreign Relations. Washington, 1977. 38 p.
- Kruger, Lennard G., Glenn J. McLoughlin, Sarah E. Taylor, and Wendy d. Schacht. Commercialization of technology and issues in the competitiveness of selected U.S. industries: semiconductors, biotechnology, and superconductors. Washington, Congressional Research Service, Library of Congress. Revised Aug. 1, 1988. 69 p.
Report 88-486 SPR
TA 175A

- Laun, Max W. Improving the international framework for the protection of computer software. University of Pittsburgh law review, v. 48, summer 1987: 1151-1184. K25.N7
- Lawless, William J., Jr., ed. Microcomputers and their applications for developing countries. Report of an ad hoc panel. Boulder, Co., Westview Press, 1986. 216 p. QA76.5.M521873
- Leeson, Kenneth W. International communications: blueprint for policy. Honolulu, East-West Communications Institute, 1983. 232 p.
- Lu, Xiaocun. The development of online information retrieval services in the People's Republic of China. Online review, v. 10, Apr. 1986: 127-133. Z699.A105
- Miller, Anthony Paul. Teleinformatics: transborder data flows and the emerging struggle for information. Columbia journal of law and social problems, v. 20, no. 1, 1986: 89-144. LRS86-4305
- Miller, Nancy R. Japanese science and technology: some recent efforts to improve U.S. monitoring. Congressional Research Service, Library of Congress. Washington, Dec. 23, 1986. 26 p. Report 86-915 SPR Q181
- Morrison, David T., and Diane B. Bendahmane, eds. Robotics and foreign affairs: a symposium. Washington, U.S. Govt. Print. Off., 1985. 93 p. T59.5.R57
- National Telecommunications and Information Administration. Long-range goals in international telecommunications and information: an outline for United States policy. Report to the Congress of the United States, Feb. 1983. 243 p., plus appendices. HE7781.L66
- Nora, Simon, and Alain Minc. The information society. Cambridge, Mass., MIT Press, 1980. 186 p.
- Organization for Economic Co-operation and Development (Paris). Information technology and economic prospects. Volume 12 of ICCP series. New York, Elsevier Science Publishing, Inc., 1987. 221 p. HD9696.A2I54
- Reszat, Beate. Technical analysis and computer trading: foreign exchange market intervention revisited. Intereconomics, v. 22, May-June 1987: 107-111. HF1410.I54
- Robinson, Peter. From TDF to international data services. Telecommunications policy, Dec. 1987: 369-376. TK7885.E
- Robinson, Peter. Telecommunications, trade and TDF. Telecommunications policy, v. 9, Dec. 1985: 310-318. HE7601.T4
- Russell, George. Trade face-off: a dangerous U.S.-Japan confrontation. Time, v. 129, Apr. 13, 1987: 28-32, 35-36. AP2.T37
- Sackman, Harold. Computers and international socio-economic problems. New York, Elsevier Publishing Company, Inc., 1987. 608 p. QA76.9.C66C64

- Sauvant, Karl. International transactions in services: the politics of transborder data flows. Boulder, Westview Press, 1986. 372 p.
HD9696.A2S28
- Sweeney, G. P., ed. Information and the transformation of society. Dublin, North-Holland, 1982. 367 p.
Z665.I578
- Teleinformatics (theme issue). Cornell international law journal, v. 14, no. 2, summer 1981: 203-353.
JX1.C63
- Transnational Data Reporting Service, Inc. International information economy handbook. Springfield, Va., Transnational Data Reporting Service, Inc. 1985. 131 p.
QA76.9.T7I58
- Turn, Rein, ed. Transborder data flows: concerns in privacy protection and free flow of information. 2 vols. Arlington, Va., American Federation of Information Processing Societies, 1979. various pagings. K3264.C65T7
- U.S. Congress. House. Committee on Government Operations. International information flow: forging a new framework. Report, 96th Congress, 2d session. 61 p.
H. Report 96-1535
- U.S. Congress. Joint Economic Committee. Subcommittee on Trade, Productivity, and Economic Growth. United States-Japanese trade in semiconductors. Hearing, 99th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1985. 526 p. S.Hrg.99-1038
KF25.E276
- U.S. Congress. Office of Technology Assessment. International competition in services: banking, building, software, know-how. Washington, U.S. Govt. Print. Off., 1987. 401 p.
HD9981.5.I58
- U.S. Congress. Senate. Committee on Foreign Relations. International telecommunications and information policy: selected issues for the 1980's. Prepared by Jane Bortnick of the Congressional Research Service, Library of Congress. Committee print, 98th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1983. 60 p. S.Prt.98-94
HE7781.B67
- U.S. Congress. Senate. Committee on Foreign Relations. Subcommittee on Arms Control, Oceans, International Operations and Environment. International communication and information policy. Hearings, 98th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1983. 422 p. KF26.F6286
- U.S. Congress. Senate. Committee on Labor and Human Resources. Subcommittee on Education, Arts and Humanities. International information exchange: relevant activities of the White House Conference on Library and Information Services. Prepared by Robert L. Chartrand of the Congressional Research Service, Library of Congress. Committee print, 96th Congress, 2d session. Washington, U.S. Govt. Print. Off., 1980. 156 p. Z690.C47
- Westney, D. Eleanor, and Kiyonori Sakakibara. Designing the designers: computer R&D in the United States and Japan. Technology review, v. 89, Apr. 1986: 24, 26-31, 68-69.
T171.M4

Wigand, Rolf T., Carrie Shipley, and Dwayne Shipley. Transborder data flow, informatics, and national policies. *Journal of communication*, v. 34, winter 1984: 153-175. P87.J6

Yurow, Jane H., ed. *Issues in international telecommunications policy: a sourcebook*. Washington, D.C., The Federal Communications Bar Association and The International Law Institute of Georgetown University, 1983. 379 p. KF2765.I84

Zeydis, I.M., and Sventek, Yu V. The use of computers in teaching and research at Moscow University's geography faculty. *Soviet geography*, v. 28, Feb. 1987: 116-120. G1.S65

VII. INFORMATION TECHNOLOGY AND THE FUTURE

- Allman, William F. Designing computers that think the way we do. Technology review, v. 90, May-June 1987: 59-65. T171.M4
- Anderla, Georges, and Anthony Dunning. Computer strategies 1990-9. New York, John Wiley and Sons, 1987. 299 p. HD9696.C62A53
- Artificial intelligence: can computers learn to "think" like people? Government executive, v. 17, June 1985: 44, 46, 50. JK1.G58
- Avebury, Lord, et al., ed. Computers and the Year 2000. London, NCC Publications, 1972. 319 p. QA76.C5814
- Barney, Gerald O., ed. The global 2000 report to the president: entering the 21st century. The technical report, v. 2. Washington, U.S. Govt. Print. Off., 1980. HC79.E5G59
- Brod, Craig. Technostress: the human cost of the computer revolution. Reading, Mass., Addison-Wesley Publishing Co., 1984. 242 p. QA76.9.P75B76
- Burke, Gerald, and Russell W. Rumberger, ed. The future impact of technology on work and education. New York, Falmer Press, 1987. 224 p.
- Getron, Marvin, and Thomas O'Toole. Encounters with the future: a forecast of life into the 21st century. New York, McGraw-Hill, 1982. 308 p. CB161.C4
- Computer Integrated Design Manufacturing and Automation Center. Factories of the future: defining the target. West Lafayette, Ind., Purdue University, 1985. 71 p.
- Dolnick, Edward. Inventing the future. New York times magazine, Aug. 23, 1987: 30-33, 41, 59. LRS87-7742
- Ely, Donald P., and Tjeerd Plomp. The promises of educational technology: a reassessment. International review of education, v. 32, 1986: 231-249. L18.I6
- Fisher, Francis Dummer. Higher education circa 2005. Change, v. 19, Jan.-Feb. 1987: 40, 42-45. LB2300.C4
- Francisco, Michael H. Riding the dynamic surge: where is advanced computer technology taking us? Price Waterhouse review, v. 30, no. 3: 1986: 25-45. LRS86-12570

- Henkel, Robert W. The chip makers: where they're heading. *Electronics*, v. 60, Apr. 2, 1987: 59-90. TK7800.E4
- Piel, Jonathan, ed. Advanced computers. *Scientific American*, v. 257, Oct. 1987: 56-169. T1.S5
- Roan, Robert Forrest. Strategic software for the '90s. *Campaigns & elections*, v. 8, May-June 1987: 69, 71-72. JK1976.C33
- Teich, Albert H., ed. Technology and the future. New York, St. Martin's Press, 1986. 392 p. T14.5.T4416
- U.S. Congress. House. Committee on Science, Space, and Technology. Technology Policy Task Force. Communications and computers in the 21st century. Hearing, 100th Congress, 1st session. Washington, U.S. Govt. Print. Off., 1987. 79 p. KF27.S3996
- Wenk, Edward, Jr. Tradeoffs: imperatives of choice in a high-tech world. Baltimore, The Johns Hopkins University Press, 1986. 231 p. T14.5.W46
- Wiener, Anthony, and Herman Kahn. The year 2000: a framework for speculation on the next thirty-three years. New York, The Macmillan Company, 1967. 431 p. CB160.K3

VIII. INFORMATION TECHNOLOGY BIBLIOGRAPHIES, ENCYCLOPEDIAS,
 THESAURI, DICTIONARIES, AND DIRECTORIES

- American National Standards Committee, Information Processing Systems.
 American national dictionary for information processing systems. New
 York, Computer and Business Equipment Manufacturers Association, 1982.
 149 p. QA76.15.A42
- Applied Computer Research. Directory of top computer executives. Phoenix,
 Az., Applied Computer Research, annual. HD9696.C6U5163
- Brechner, Irv. The easy to understand computer dictionary. Chicago, WIDL
 Video, 1983. 87 p. QA76.15.B73
- Burwell, Helen P., ed. Directory of fee based information services. Houston,
 Burwell Enterprises, 1986. 211 p. Z674.5.U5D57
- Cortada, James W., ed. An annotated bibliography of the history of data
 processing. Westport, Ct., Greenwood Press, 1983. 215 p. Z5640.C67
- D'Aleo, Richard J. FEDfind: your key to finding Federal Government informa-
 tion. Springfield, Va., ICUC Press, 1988. 480 p. Z1223.Z7D3
- Deighton, Suzan, John Gurnsey, and Janet Tomlinson, eds. Computers and
 information processing world index. Phoenix, Az., Oryx Press, 1983.
 616 p. Z5640.C65
- Department of Commerce. Dictionary of computer software. Washington, Dept. of
 Commerce, 1985. 399 p. NTIS PB85-162121
- Directory of consultants in computer systems. Woodbridge, Conn., Research
 Publications, 1985. 346 p. QA76.215.L43
- Dillman, Don A., and Jurg Gerber. Sociological implications of information
 technology: a bibliography of recent publications. Chicago, CPL Bibli-
 ographies, 1985. 52 p. LRS85-14977
- Directory of online databases. New York, Cuadra/Elsevier, 1988. Biannual,
 with updates (Jan. '88) 611 p. HF5548.2.055
- Downing, Douglas. Pocket encyclopedia of computer terms. Woodbury, N.Y.,
 Barron's Educational Series, Inc., 1983. 148 p. QA76.15.D69
- Edmunds, Robert A. The Prentice-Hall encyclopedia of information technology.
 Englewood Cliffs, N.J., Prentice-Hall, Inc., 1987. 590 p. QA76.15.E184

- Electronic Industries Association. Electronic market data book. Washington, Electronic Industries Association, 1986. 158 p.
- Encyclopedia of library and information science. New York, M. Dekker, 1968 - [1988]. 35 vols. Z1006.E57
- Freedman, Alan. The computer glossary for everyone: it's not just a glossary. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1983. 298 p. QA76.15.F734
- Gates, Hilary, ed. A dictionary of library and information retrieval software for microcomputers. Brookfield, Vt., Gower Publishing Co., 1985. 59 p. Z678.9.A3D9
- Gerberg, Mort. The computer dictionary. New York, Simon and Schuster, Inc., 1984. 96 p. QA76.15.G47
- Godman, Arthur, ed. Barnes and Noble thesaurus of computer science. New York, Barnes and Noble, 1984. 262 p. QA76.15.G64
- Hildebrandt, Darlene Myers, ed. Computing information directory: a comprehensive guide to the computing literature. Federal Way, WA, Pedaro, Inc., 1988. 893 p. QA76.M942
- Hordeski, Michael. Illustrated dictionary of microcomputer terminology. Blue Ridge Summit, Pa., Tab Books, 1978. 322 p. TK7885.A2H67
- Illingworth, Valerie, ed. Dictionary of computing. Oxford, Oxford U. Press, 1986. 416 p. QA76.15.D526
- Meadows, A. J. Dictionary of computing and new information technology. New York, Nichols Publishing Co., 1984. 229 p. QA76.15.M4
- Novelli, Luca. My first computer dictionary. Trans. by Laura Parma-Veigel. New York, Harper and Row, 1986. 63 p. QA76.15.N67713
- Parker, Sybil P., ed. McGraw-Hill encyclopedia of electronics and computers. New York, McGraw-Hill, 1982. 964 p. TK7804.M43
- Ralston, Anthony, ed. Encyclopedia of computer science and engineering. New York, Van Nostrand Reinhold Co., 1983. 1664 p. QA76.15.E48
- Rosenberg, Jerry M. Dictionary of computers, information processing and telecommunications. New York, John Wiley & Sons, 1987. 734 p. QA76.15.R67
- Spencer, Donald D. The illustrated computer dictionary. Columbus, Charles E. Merrill Publishing Co., 1983. 209 p. QA76.15.S67
- Spencer's computer dictionary for everyone. New York, Charles Scribner's Sons, 1985. 290 p. QA76.15.S674
- U.S. Congress. General Accounting Office. ADP, IRM and telecommunications: bibliography of GAO documents. Washington, G.A.O., 1986. 130 p. GAO/IMTEC-86-9

- U.S. National Technical Information Service. Directory of computerized data files, 1987. Springfield, Va., NTIS, 1987. 381 p. LRS87-6509
- Webster's new world dictionary of computer terms. New York, Simon and Schuster, 1983. 282 p. QA76.15.W37
- Welke, L. A., ed. ICP directory. Indianapolis, Information Product and Service Suppliers, semi-annual.
- Williams, Martha E., ed. American Society for Information Science. Computer-readable databases: a directory and data sourcebook. White Plains, N.Y., Knowledge Industry Publications, 1985. various pagings. Z699.22.W54

IX. INFORMATION TECHNOLOGY PERIODICALS

- Annals of the history of computing. Arlington, Va., American Federation of Information Processing Societies, Inc. QA76.17.A5
- Annual review of information science and technology. Z699.A1
- Bulletin of the American Society for Information Science. Washington, American Society for Information Science Z699.A1A624a
- Byte. New York, McGraw-Hill, Inc. QA76.5.B9
- Communications daily.
- Computer design. Littleton, Mass., Penn-Well Publishing Co.
- Computer graphics world. San Francisco, Penn-Well Publishing Co. T385.C558
- Computers and society. New York, Association for Computing Machinery. QA76.C5812
- Computerworld. Cambridge, Ma., Computerworld, Inc.. QA76.C5816
- Data communications. New York, McGraw-Hill, Inc. QA75.5.D35
- Datamation. Barrington, Il., Technical Publishing Company T175.M26
- Educational technology. Saddlebrook, NJ, Educational News Service LB1043.E33
- Electronics. New York, McGraw-Hill, Inc. TK7800.E4
- FCC week.
- Federal computer week. Boston, GSN, Inc.
- The Futurist. Washington, World Future Society CB158.F88
- Government computer news. New York, Ziff-Davis Publishing Co.
- Government executive. Washington, Executive Publications, Inc. JK1.G58
- Government information quarterly, Greenwich, Conn., JAI Press, Inc.

IBM information processing.	QA76.D3314
IBM journal of research and development. Armonk, NY, International Business Machines Corp.	TK7800.I14
IEEE Spectrum. New York, IEEE.	TK1.I15
Information report. Washington Researchers	
Information technology and libraries.	Z678.9.A1
Infoscope. Andrew A. Aines, ed.	
Infosystems. New York, ABC Publishing Company.	
Journal of broadcasting and electronic media.	PN1991.J6
Journal of communication.	P87.J6
Journal of the American Society for Information Science. New York, John Wiley and Sons, Inc.	
Microwave news.	
Personal computing. Rochelle Park, NJ, Hayden Publishing	QA76.5.P3937
Privacy journal.	KF1262.A15P68
Telecommunications, Norwood, Ma., Horizon House-Microwave, Inc.	
Telecommunications policy.	HE7601.T4
Telematics and informatics.	
Transnational data report. Springfield, Va., Transnational Data Reporting Service, Inc.	QA76.9.A25T73