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ABSTRACT

This brief guide to materials in the Library of Congress (LC) on computer aided design and/or computer aided manufacturing lists reference materials and other information sources under 13 headings: (1) brief introductions; (2) LC subject headings used for such materials; (3) textbooks; (4) additional titles; (5) glossaries and handbooks; (6) bibliographies; (7) state-of-the-art reviews and conference proceedings; (8) abstracting and indexing services; (9) journals that often contain relevant articles; (10) selected representative journal articles; (11) report indexes; (12 selected pamphlets and other vertical file materials; and (13) additional sources of information. (DJR)



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CAD/CAM

Updated by George D. Havas

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BRIEF INTRODUCTIONS

Hudson, C. A. Computers in manufacturing. Science, v. 215, Feb. 12, 1982: 818-825. Ql.S35 and Pamphlet box* Reviews the use of computers in manufacturing applications including computer aided design, computer aided manufacturing and robotics.

Yankee, Herbert W. Computer-aided design and manufacturing. <u>In</u> McGraw-Hill encyclopedia of science & technology. v. 3. New York, McGraw-Hill, 1982. p. 490-492. Q121.M3 1982*

<u>SUBJECT HEADINGS</u> used by the Library of Congress, under which books on CAD/CAM can be located in most card, book, and online catalogs include the following:

CAD CAM SYSTEMS (Highly relevant) COMPUTER-AIDED DESIGN (Highly relevant) ENGINEERING DESIGN--DATA PROCESSING (Highly relevant) PRODUCTION ENGINEERING--DATA PROCESSING (Highly relevant) PRODUCTION MANAGEMENT--DATA PROCESSING (Highly relevant) STRUCTURAL DESIGN--DATA PROCESSING (Highly relevant) COMPUTER GRAPHICS (Relevant) ARTIFICIAL INTELLIGENCE (Related) INTERACTIVE COMPUTER SYSTEMS (Related)

TEXTS

Besant, C. B. Computer-aided design and manufacture. 2nd ed. Chichester, Eng., Horwood; New York, Halsted Press, 1983. 232 p. TA174.B46 1983

CAD/CAM, computer-aided design/computer-aided manufacturing. New York, Engineering Information, c1983. 168 p. TS155.6.C33 1983

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Faux, I. D., and M. J. Pratt. Computational geometry for design and manufacture. Chichester, Eng., Horwood; New York, Halsted Press, 1979. 329 p. QA447.F33 Bibliography: p. 315-324.

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ADDITIONAL TITLES

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- C rover, Mikell P., and Emory W. Zimmers, Jr. CAD/CAM: computer-aided design and manufacturing. Englewood Cliffs, N.J., Prentice-Hall, c1984. 489 p. TS155.6.G76 1984*



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- Ryan, Daniel L. Computer-aided graphics and design. New York, M. Dekker, c1979. 324 p. Includes bibliographies and index.
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- Turnkey CAD, CAM computer graphics: a survey and buyer's guide for manufacturers. Cambridge, Mass., Daratech Associates, cl980-1982. 3 pts. Contents: pt. 1. Contemporary interaction CAD/CAM technology.-pt. 2. Evaluating today's turnkey systems.--pt. 3. U.S. directory of vendors.

Includes bibliographical references and indexes.

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- CAD/CAM: design and drafting systems, CAD/CAM systems, graphics systems, NC tape prep, software packages, CRTs, workstations, plotters and printers, digitizers. Dearborn, Mich., Society of Manufacturing Engineers, Marketing Services Division, cl983. 590 p. TS155.6.C34 1983*
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Applied Mechanics Review (1948-) TA1.A63953* See: Computer Aided Design Computer Aided Manufacturing Computer Graphics

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Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room.



Computer Literature Index (1980-) QA76.Q3* See: Computer Aided Design Computer Aided Manufacturing Graphics Interactive Computing Applications Current Technology Index (1962-) Z7913.B7* See: cross references under Computer Aided Design cross references under Computerized Numerically Controlled ... Industrial Design, Computer Aided Electrical & Electronics Abstracts (Science Abstracts--Series B) (1898) Q1.S3* and Z5833.E37* See: CAD **Computer Graphics** Engineering Index (1884-) Z5851.E62* See: Computer Aided Design Computer Aided Manufacture Robomatix Reporter (1983-) TS191.8.R588 See: CAD CAD CAM CAM JOURNALS that often contain articles relevant to CAD/CAM are Computer Aided Design TA174.C58 Computer Graphics T385.C56 Computer Graphics World T385.C558 Datamation T175.M26 High Technology T1.H5 IEEE Computer Graphics and Applications T385.I18 SELECTED REPRESENTATIVE JOURNAL ARTICLES Andreiev, Nikita. CAD techniques provide ultimate design tool. Control engineering, v. 29, Feb. 1982: 51-54. TJ212.C6 Beeby, William. The future of integrated CAD/CAM systems: the Boeing perspective. IEEE computer graphics and applications, v. 2, Jan. 1982: 51-52. T385.I18 Busick, Edward L. CAD/CAM workstation trends. Computer graphics world, v. 7, Apr. 1984: 59-60, 64, 66, 68. T385.C558 Bush, James W. Manufacturing marvel: CAM--the CAD connection. Ward's auto world, v. 18, Mar. 1982: 45-47, 50. HD9710.U5W33 Catalano, Frank J. CAD vendors pursue architectural market. High technology, v. 5, Jan. 1985: 60. T1.H5 Cooley, M. J. Some social aspects of CAD. Computers in industry, v. 2, Oct. 1981: 209-215. TS155.A1C56 8



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Monthly Catalog of United States Government Publications (1895-) Z1223.A18*

See: Engineering Design--Data Processing

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ADDITIONAL SOURCES OF INFORMATION

IEEE Computer Society 10662 Los Vaqueros Circle Los Alamitos, California 90720 Telephone: (714) 821-8380

National Computer Graphics Association 8401 Arlington Blvd. Suite 601 Fairfax, Virginia 22031 Telephone: (703) 698-9600

Society of Manufacturing Engineers P.O. Box 930 Dearborn, Michigan 48121 Telephone: (313) 271-1500

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