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ABSTRACT

This booklet is designed to help instructional technologists, students of instructional technology, faculty, and researchers in the field locate information quickly and easily. Information services described are libraries, the ERIC system, online information services, state education departments, regional education centers, and information brokers. Specific suggestions are given, following a description of each service, about how to devise search strategies and conduct a search, with specific information provided on what to look for, where to look, and choosing and locating sources. Other general topics include searching for nonprint instructional materials, documenting a search, and evaluation. The comprehensive bibliography of recent materials, which comprises most of this publication, is introduced by a description of the scope of the list and the search strategy used to develop it. The bibliography lists reference works, monographs, bibliographies, indexes, databases, and journals with information related to the topics of instructional technology, instructional development, instructional materials and techniques, training and human resource development, computers in education, learning theory and applied behavioral science, systems theory, management of instructional programs, evaluation, research, and statistics. Sources used to identify materials and terms used with the search code are appended and an author index is provided. (LMM)

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**SOURCES OF INFORMATION
FOR
INSTRUCTIONAL TECHNOLOGY**

Compiled by

Ann L. Wiley



Clearinghouse on Information Resources
Syracuse University

1982

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INTRODUCTION

Instructional technologists, students of instructional technology, faculty, and researchers in the field often must find information about some aspect of instructional technology, or some area in which they are developing instruction. The purpose of this publication is to help everyone in the field locate information quickly and easily.

Information services useful to instructional technologists are described first. Suggestions about how to devise a search strategy and conduct and document a search follow. Evaluating information and deciding which sources to use are also discussed.

A list of sources in instructional technology comprises most of the publication. The scope of the list and the search strategy used to develop it are described before the listing.

INFORMATION SERVICES FOR INSTRUCTIONAL TECHNOLOGISTS

Information services which instructional technologists may find useful include those listed below. Each of these services supports the work of instructional technologists in particular ways which are described in the sections which follow:

Libraries

Library networks

The ERIC system

Online information services

State education departments

Regional education centers

Information brokers

Libraries

Public, school, academic, and special libraries are information services to which most instructional technologists have ready access. Using libraries easily requires knowledge of the literature of the field, and of the way libraries are organized.

The literature of instructional technology is the main focus of this publication. The Source List identifies useful monographs, reference works, and journals. The ERIC system and other online information services are described in the paragraphs which follow. Once you have explored some of the sources identified in the Source List, and used the ERIC materials, you will know enough about the literature of instructional technology to find materials in a library easily.

Familiarity with the literature of fields in which instructional technologists are developing programs comes with experience. Subject experts like engineers, musicians, scientists, artists, and other professionals can help an instructional technologist identify sources. Librarians are an invaluable source of help to anyone looking for materials in an unfamiliar field.

Libraries are organized to help users locate materials as readily as possible. There are several types of libraries, each serving a particular group of users. They are:

- Academic--in colleges and universities
- Special--in industries, businesses, museums, hospitals, laboratories, and so on
- School--in public and private elementary and secondary schools
- Public--municipal and county government sponsored libraries

Users gain access to a library when they belong to the community the library serves. Some libraries must restrict access because their limited operating funds are provided by their clientele; however, many libraries grant special privileges to users from outside their communities, and still more lend materials to users outside the community through interlibrary loan.

Interlibrary loan greatly extends access to library materials through networks of academic, special, and public libraries set up and sponsored by state and local governments. If you do not have access to an academic or special library, check with your local public library

to determine whether you can obtain specialized materials on inter-library loan through an existing library network.

Individual libraries organize materials in many ways, but certain basic patterns prevail. Books usually are shelved by classification number, which gives a general arrangement by subject. The Library of Congress classification scheme is often used, although there are a number of others, some specialized by subject.

Further access to books is provided by library catalogs, which list materials by author, title, and subjects. Until a few years ago, most library catalogs were on cards. Now many large libraries have their catalogs online and users access the information at a computer terminal. Online catalogs are easy to use and save hours of looking through cards. Frequently it is possible to access a great many more subjects directly online than can be accessed in card catalogs.

Periodicals may be classified and shelved with books, or they may be shelved alphabetically by title. Periodical indexes are usually shelved in a separate section of the reference area in the library, according to subject. Periodical titles are always recorded in the library catalog. Ask the librarian how to locate periodicals in your library.

Reference materials are usually classified by subject and shelved in the same way as other books, but in a separate section of the library. Audiovisual materials are sometimes classified and shelved with books, but more often they are kept in a separate section of the library. The audiovisual librarian is usually the best source of information about what audiovisuals the library has, and how they are organized.

Most libraries post signs and maps to show where materials are located, but if you can't locate material, you should ask the librarian for help.

The ERIC system

The ERIC (Educational Resources Information Center) system, sponsored by the National Institute of Education, includes 16 clearinghouses, each of which abstracts and indexes literature in a

particular field of education. For example, the ERIC Clearinghouse on Information Resources at Syracuse University covers the literature of instructional technology, as well as library and information science. The abstracting and indexing information developed by the clearinghouses is published in two indexes and made available on computer tape by the ERIC Processing and Reference Facility. The indexes are Resources in Education (RIE), and Current Index to Journals in Education (CIJE).

Resources in Education is a compilation of educational literature such as research project reports, papers, pamphlets, and occasional books, most of which would never be distributed widely unless they were listed in RIE. Resources in Education is found in most academic libraries, and in many public and special libraries.

Most of the documents listed in RIE are also put on microfiche by the ERIC Document Reproduction Service, which sells both the fiche and paper copy of the documents. Many libraries have complete collections of the ERIC fiche, arranged by document number for easy retrieval.

The Current Index to Journals in Education (CIJE) is a comprehensive index of educational periodicals which is also available in many libraries.

Two publications explain the use of the ERIC indexes and online searching of the ERIC database. The publications are:

All About ERIC. Washington, DC: The National Institute of Education, 1982. Free from the ERIC Processing and Reference Facility, 4833 Rugby Avenue, Suite 301, Bethesda, MD 20814.

Simmons, R. M. A Library User's Guide to ERIC (1980 edition). Syracuse, NY: ERIC Clearinghouse on Information Resources, 1980. ED 192 781. Available from the ERIC Document Reproduction Service (EDRS), P.O. Box 150, Arlington, VA 22210, or from Information Resources Publications, School of Education, Syracuse University, Syracuse, NY 13210.

Audiovisual programs which show how to use the ERIC system are listed in:

Ely, D. P. A Guide to Audiovisual Resources About ERIC. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1979. ED 179 248. Available from EDRS or Information Resources Publications.

Online information services

New online information services become available all the time. There are at least a dozen such services which might be useful to instructional technologists.

Some databases are available to users directly from the producer, but most are available to users through vendors, who process the tapes in a variety of ways to make searching the databases easier. Most subscribers to databases are institutional users, frequently libraries.

Searching a database requires training, but many large libraries have departments devoted to online searching. Your reference librarian can put you in touch with the person in charge of this service. If you do not have access to a large library, you may be able to obtain online searches from your state education department or an information broker. These sources are described in later paragraphs.

Online searching is most helpful when you need a lot of information, much of it current, on a complex subject. If you want information on a single subject, e.g., instructional development models, it is easier to find the information through manual searching than to use a computer search. However, if you want to locate information on how instructional development models are used by deaf educators, the information will be located more quickly and accurately by a computer than through a manual search.

The best way for individual users to obtain access to online searches is through a library or an information broker. For your reference, the names and addresses of the major vendors of the databases appear below. The Source List includes names of databases of potential use to instructional technologists, and a list of directories of databases.

Bibliographic Retrieval Service, Inc. (BRS)
1200 Route 7
Latham, NY 12110

DIALOG Information Services, Inc. (DIALOG)
3460 Hillview Avenue
Palo Alto, CA 94304

System Development Corporation (ORBIT)
SDC Search Service
2500 Colorado Avenue
Santa Monica, CA 90406

State education departments

State departments of education in several states have information services which perform computer searches of the ERIC database for educators. These state agencies may also provide other services, which each agency can describe to you. Complete addresses can be obtained from the state education department in each state, or the following publication:

Directory of ERIC Search Services. 1981 edition. Washington, DC: National Institute of Education. Available from the ERIC Processing and Reference Facility.

State education departments sponsoring information services include those in the states listed below. If the information service has a special name, that name is given in parentheses.

Alabama (AIDS)
Alaska
Delaware
Georgia
Idaho
Illinois
Iowa (INFORMS)
Kansas (KEDDS)
Kentucky
Maine (Project Life)
Maryland
Montana

Nebraska (SNICER)
New Hampshire
New York (EPSIS)
North Carolina
Oklahoma (Project SEEK)
Oregon
Rhode Island
South Carolina
Utah
Virginia

Regional education centers

In a few states, regional education centers provide a variety of services, including information services, to educators. Clientele served may be limited to educators in a particular region within a state. Many of these centers are sponsored at least in part by the federal, state, or local government. Examples include LANCERS in Los Angeles; SMERC in San Mateo County, California; ACES in New Haven, Connecticut; New Jersey's Educational Improvement Centers; Oregon's Education Service Districts; and Texas's Education Service Centers. The best way to learn whether such centers exist in your area and what specific services are provided is to ask educators and librarians.

Information brokers

In many states, notably California, Maine, Massachusetts, and Maryland, there are growing numbers of information brokers who provide information services to clients on a fee for service or contract basis. Many information brokers provide online searching and those providing such services are often listed in the Directory of ERIC Search Services. You can also identify such commercial information services by consulting the yellow pages, and by asking colleagues if they have used such services.

DEVELOPING A SEARCH STRATEGY

Looking for information requires making several decisions, often subconsciously--what to look for, where to look, how to look, and what specific sources to consult. Many times it is easy to find the needed information. You may decide to consult a colleague,

professor, or fellow student. Or you may locate the information you need in a familiar article or book. However, if you need to find information when there is no readily available source, or you need extensive information, possibly in an unfamiliar field, you will need to develop a search strategy.

What to look for

The first step in developing a search strategy is to decide and state what you are looking for. You may change your objectives as you proceed, but keeping a clear statement of the objective in front of you makes any search easier.

Your statement should include the following:

The subject of interest

The type of information needed, e.g., a definition or statistics

How much information is needed, e.g., a brief review, or several books and articles

The level of information needed, e.g., professional or popular material

How recent the information should be

Acceptable languages

Availability required, e.g., can you wait to receive the material from the publisher or another library?

Where to look

You will also decide where to look, or what services to use. Possible sources and services already mentioned include colleagues, professors, and fellow students if the information required is known to them; familiar books and articles, which would include your personal library; and libraries, the ERIC system, online search services, state and regional education agencies, and information brokers.

There are a few additional sources from which you might request information. These sources are not primarily providers of

information, but they have access to large amounts of information, much of it unpublished. Elected officials are the first such source. Your congressman and state legislator, especially your representative in the lower house of your legislature, will be responsive to requests for information. Your representative may not specialize in your area of interest, but will be able to refer you to a legislator or committee staff member who does. When you request information from a legislator, always mention the published sources you have consulted and the libraries you have used, so you will get the kind of information only your legislator can give to you. This kind of information includes staff summaries and reports prepared by agencies like the Congressional Information Service.

Professional organizations often maintain information services, and usually publish journals, monographs, and newsletters. An example of an information service maintained by a professional organization is the Resource Center of the American Society for Training and Development. ASTD's Resource Center responds to requests for information in the human resources development field by mailing items from the center's files. National members of ASTD can use the service by sending their national member number and request to ASTD, Suite 305, 600 Maryland Avenue, Washington, DC 20024.

Another professional organization important to instructional technologists is the Association for Educational Communications and Technology. AECT has a publications program, and will mail a publications list to anyone who writes to AECT, 1126 Sixteenth Street, NW, Washington, DC 20036.

Finally, businesses, public agencies, and voluntary groups providing products and services in certain areas will often respond to requests for information in their areas of specialization.

Choosing and locating sources

If you need a particular type of information, you will want to consult a particular type of source. For example, if you are looking for a definition, you will want to consult a dictionary. The Source List identifies reference materials, and lists them according to the type of information they contain to make it easy for you to locate sources of particular types of information.

If you need information on a particular subject you will search by that subject. You will look for a variety of sources. If you need only a small amount of recent information, you will look for a few recent articles, or a recent textbook. If you need extensive information, you will probably consult books, journals, and research reports. Locating such materials easily requires identifying subject headings and terms to use in searching library catalogs and indexes.

The usual way to locate books in a library catalog is to use whatever term comes to mind and begin looking through the cards. Since most catalogs have good cross references, the technique often produces acceptable results. If the library catalog is online, the technique is even more likely to produce results, because computer systems allow more flexibility in choice of terms under which to search. If you have difficulty identifying subject terms under which to locate materials in a library catalog, ask the librarian for help.

You can locate books in a number of sources besides library catalogs. Books in Print, an annual publication of the R. R. Bowker Company, lists most books available from American publishers each year. Cumulative Book Index from H. W. Wilson Company, also an annual, lists books in English; most of them are published in Canada, the United Kingdom, and the United States. Publishers' catalogs and publication lists of professional associations are also good sources in which to locate books of possible interest.

Research reports and conference papers often provide extensive treatment of subjects. Such documents are readily available through the ERIC system, and may also be located in the catalogs of large libraries. Resources in Education provides access to report literature by subject, author, and institution. Consult the publication All About ERIC for instructions on using RIE and the ERIC collection of microfiche. The next two pages show the subject headings related to educational technology in the Thesaurus of ERIC Descriptors, and all the headings containing the word technology, as well as all those with the word educational.

THESAURUS OF ERIC DESCRIPTORS

EDUCATIONAL TECHNOLOGY

JUL69

- SN SYSTEMATIC IDENTIFICATION, DEVELOPMENT,
ORGANIZATION, OR UTILIZATION OF EDUCATIONAL
RESOURCES AND/OR THE MANAGEMENT OF THESE
PROCESSES--OCCASIONALLY USED IN A MORE
LIMITED SENSE TO DESCRIBE THE USE OF
EQUIPMENT-ORIENTED TECHNIQUES OR
AUDIOVISUAL AIDS IN EDUCATIONAL SETTINGS
- UF INSTRUCTIONAL TECHNOLOGY (1966 1978)
- NT INSTRUCTIONAL SYSTEMS
- BT TECHNOLOGY
- RT AUDIOVISUAL AIDS
AUDIOVISUAL COMMUNICATIONS
COMPUTER ASSISTED INSTRUCTION
COMPUTER MANAGED INSTRUCTION
COMPUTER ORIENTED PROGRAMS
CYBERNETICS
EDUCATION
EDUCATIONAL DEVELOPMENT
EDUCATIONAL EQUIPMENT
EDUCATIONAL INNOVATION
EDUCATIONAL MEDIA
EDUCATIONAL METHODS
EDUCATIONAL RESOURCES
INSTRUCTION
INSTRUCTIONAL DEVELOPMENT
INSTRUCTIONAL IMPROVEMENT
INSTRUCTIONAL INNOVATION
INSTRUCTIONAL MATERIALS
MULTIMEDIA INSTRUCTION
PROGRAMED INSTRUCTION

ROTATED DISPLAY OF DESCRIPTORS AND CROSS REFERENCES

INSTRUCTIONAL TECHNOLOGY (1966 1978)

USE EDUCATIONAL
TECHNOLOGY

TECHNOLOGY

AEROSPACE TECHNOLOGY

AVIATION TECHNOLOGY

BEHAVIORAL TECHNOLOGY

COMPUTER TECHNOLOGY

EDUCATIONAL TECHNOLOGY

ELECTROMECHANICAL TECHNOLOGY

ENGINEERING TECHNOLOGY

INDUSTRIAL TECHNOLOGY

LABORATORY TECHNOLOGY

LIVESTOCK TECHNOLOGY USE ANIMAL SCIENCE

MEDIA TECHNOLOGY

RADIO TECHNOLOGY

TELEVISION TECHNOLOGY USE MEDIA
TECHNOLOGY

TECHNOLOGY
TRANSFER

EDUCATIONAL SYSTEMS DEVELOPMENT

USE EDUCATIONAL
DEVELOPMENT

EDUCATIONAL TECHNOLOGY

EDUCATIONAL TELEVISION

EDUCATIONAL TESTING

EDUCATIONAL THEORIES

EDUCATIONAL THERAPY

Many major libraries have pamphlet collections of ephemeral material which is often not indexed elsewhere. Ask your librarian to show you the library's vertical file and explain how it is organized, so that you can become familiar with the it.

Journal articles are an important source of information in the rapidly changing fields of the sciences and social sciences. The Source List includes journals of interest to instructional technologists, and a list of the indexes and databases which provide access to articles in those journals.

The Current Index to Journals in Education, produced by the ERIC system, is possibly the most useful index for instructional technologists. Consult All About ERIC for instructions on using CIJE. Use the list of subject headings on the previous two pages to help you choose headings under which to search CIJE. Education Index may also be useful.

Everything we have said so far about search strategy applies to looking for printed materials. Searching for audiovisual and nonprint instructional materials presents different problems, and is discussed separately in the next section.

SEARCHING FOR NONPRINT INSTRUCTIONAL MATERIALS

Searching for nonprint instructional materials is completely different from searching for printed materials. Such materials are not subject to the same bibliographic control as are books and journal articles. There is nothing comparable to Books in Print listing available instructional materials. There are no indexes to all available instructional materials, although the indexes of the National Information Center for Educational Media (NICEM) index a comprehensive selection of audiovisual materials available for elementary, secondary, and adult education. Instructional materials are not usually listed in library catalogs, so they are not included in the national or regional union or cooperative catalogs which exist in great numbers for printed materials, showing all of the books owned by libraries in broad geographic areas.

Nonprint instructional materials are most often found by consulting educators and trainers in particular fields, or by consulting experienced media librarians and curriculum specialists.

Instructional technologists should be prepared to help clients locate nonprint materials. Using audiovisual and other nonprint materials is important in higher education, in our schools, in public agencies, and in business and industry. Industry in particular is frustrated by the difficulty of finding appropriate training materials, and the difficulty of finding well trained audiovisual staff. Learning to locate nonprint instructional materials will help you fill a real need.

The Source List contains a number of items to help you get started in looking for audiovisual and other instructional materials. It includes directories of instructional materials and sources of evaluative information, a short list of audiovisual source guides, and a section listing bibliographies of source lists.

In addition to consulting the items identified in the Source List, examine a wide selection of producers' catalogs, and any files you can locate of catalogs assembled by media specialists. Some media specialists keep extensive files of fliers and brochures identifying media on particular subjects.

DOCUMENTING A SEARCH

Keeping good records as you search can save time and prevent aggravation if you need to be absolutely certain later on where you looked, where you found citations of interest, and exactly which publications you are citing. Documenting a search involves keeping records of both where you looked and what you found.

It is best for instructional technologists to use the citation form prescribed by the American Psychological Association (APA) for all citations, including notes about sources consulted. Most journals in the field, and most academic programs, require that papers submitted use the American Psychological Association's citation form.

Below are examples of citations for the most common types of publications. Follow these examples in writing your citations. If you have a type of material not covered by these examples, refer to the Publication Manual of the American Psychological Association (2d ed. Washington, DC: American Psychological Association, 1974).

Although the APA distinguishes between magazines and journals, you should treat all periodical publications as journals. The distinction does not have much meaning and is less emphasized now than it was in 1974.

Examples of citations in the APA form

Journal Articles

One author, journal paginated continuously:

Merrill, M. D. Content and instructional analysis for cognitive transfer tasks. AV. Communication Review, 1973, 21, 109-125.

Multiple authors, journal paginated by issue:

Durzo, J. J., Diamond, R. M., & Doughty, P. L. Selected references related to the practice of instructional development: A place to start. Journal of Instructional Development, 1979, 2 (4), 19-22.

Books

Gagne, R. M., & Briggs, L. J. Principles of instructional design. New York: Holt, Rinehart, & Winston, 1974.

Article in an edited book:

Baker, E. L. The technology of instructional development. In R. M. W. Travers (Ed.), Second handbook of research on teaching. Chicago: Rand McNally, 1973.

All volumes of a multivolume work:

Knowles, A. S., et al. (Eds.) The international encyclopedia of higher education (10 vols.). San Francisco: Jossey-Bass, 1977.

Doctoral dissertations (partial form, suitable for notes. Full form in formal reference lists includes Dissertation Abstracts and University Microfilms information):

Reigeluth, C. M. Effects of generalities, examples, and practice: Instructional outcomes for concept classification, principle-using, and procedure-using tasks. (Doctoral dissertation, Brigham Young University, 1977).

ERIC documents:

Dodge, B. J. Audiovisual resources for teaching instructional technology. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. (ERIC Document Reproduction Service No. ED 152 337)

Government documents:

U.S. Office of Education. Digest of educational statistics. Washington, D.C.: U.S. Government Printing Office, 1962-.

Miscellaneous features common to many publication types:

Author, Jr. in name:	Strunk, W., Jr.
Editor:	Travers, R. M. W. (Ed.).
No author:	Title is first item in citation
Subtitles:	<u>Instructional development: A place to start</u>
Second and subsequent editions:	<u>The elements of style (2nd ed.)</u>
Discontinuous pages:	<u>53-57; 74-75.</u>

In addition, you may wish to cite the following types of materials, which are not covered by the APA rules.

Journal--entire issue or the title as a whole:

Journal of Instructional Development. Washington, D.C.:
Association for Educational Communications and
Technology, v.4 no. 4, Summer, 1981.

Journal of Instructional Development. Washington, D.C.:
Association for Educational Communications and
Technology, 1977-. Quarterly.

Audiovisuals:

Copyright: New law, new directions. Washington, D.C.:
Association for Educational Communications and Technology,
1977. Sound filmstrip. 90 frames. Color.

The description of audiovisual materials is up to the compiler of the list. If the client wants to know how long each program listed is, it will be important to give the duration of the program in minutes. If materials in color are desired, it is important to note that. The description given here is intended as a general example.

The careful reader will notice that citations in the Source List and in the text vary in several ways from APA form. The variations are intentional. For example, in the text, all the words of titles are capitalized for readability, and subtitles throughout are given in as readable a form as possible.

You can vary your citation form too, so long as your editor or professor accepts variations. Keep variations consistent. Try not to vary from APA punctuation, which is clearer than most forms, and clearer than almost any form you might develop.

As you conduct a search, keep an up-to-date record of the sources you have consulted. Establish a card for each source, or keep a chronological list. If you decide to list the sources you have checked for someone else's reference, you will want to write up the list by subject or by type of reference, so the list will make sense to another person.

Keep track of the source in which you located every citation of interest. It is sometimes important to be able to refer to an index

and look once again at a journal article citation, or go back to a statistical compilation for another look at particular data. These situations arise because citations for articles sometimes turn out to be wrong, or to be written down wrong, and because statistics can differ among sources.

Your list of sources may be useful later on if you decide to expand the search and look for additional material on the same subject. Referring to the list of sources checked will save the effort of checking them again.

For every source you have used, record the full bibliographic citation, or complete identifying information, such as the address of a public official or organization, or location and sponsoring institution of a library whose catalog you checked. Then note the subject headings or sections of the source which you consulted, and give complete citations for items of interest located in that source, or notes about where the citations are. When a source has yielded no citations of interest, a zero next to the title can be used to indicate that, or a note like "no citations of interest" can be used.

It is especially important to keep careful track of where you have looked for instructional materials on a particular subject, and where you found each item of interest.

EVALUATING INFORMATION

Deciding whether or not to include an item in a bibliography, or to make use of it in order to obtain needed information, involves evaluating information.

There are many criteria we use to evaluate information. A few important considerations are listed below; you will think of others. Each professional person and every scholar develops a way of applying these and other similar criteria.

Criteria for evaluating information and judging its potential usefulness

The audience

- Needs
- Age
- Location in relation to the materials
- Proposed use of materials

Date of the material

- Timely treatment for period in which written
- Still relevant
- A classic, even though written some time ago

Author

- Reputation
- Institutional affiliation
- Other publications
- Knowledge of subject matter
- Writing style

Format

- Convenient to use
- Available to user
- Appropriate for subject
- Appropriate for use intended

Technique

- Appropriate to the subject
- Responsibly and accurately used

The technique criterion applies in particular to research. Katzer's book Evaluating Information, which is cited in the research section of the Source List, is an excellent treatment of the evaluation of research reports for accuracy, appropriateness of statistical technique, and potential usefulness.

THE SOURCE LIST

The source list is a comprehensive bibliography of recent materials in the field of instructional technology. Instructional technology is interpreted to include instructional design and development; instructional techniques; instructional materials; systematic development of training materials and organization development as it relates to instructional technology; computers in education and training; learning theory and the behavioral sciences applied to education; system theory; management of instructional programs; instructional facilities design; research and evaluation; and statistics in educational research.

Reference works, indexes and databases, and journals potentially useful to instructional technologists are also included.

Although the list is comprehensive, it cannot be called complete. It is limited first of all by the compiler's knowledge of materials. In addition, several criteria were applied to determine whether or not materials would be listed.

Items listed are current, mainly published since 1977. Older items are listed if they are considered classics in the field, or if they provide the only coverage of a topic of general interest.

Materials cited are all written in English. Only one journal article is cited; it is a bibliography. All items listed are readily available. Materials from obscure publishers and ephemeral materials not listed in RIE are not included.

The following subjects are not covered: specific media, e.g., television, or film; except computer assisted instruction and video-disc technology; childhood, adult, and special education without specific reference to instructional technology; applications of instructional technology in primary or secondary education; and training and human resource development without reference to a systematic approach to designing instruction or organization development.

Appearance of an item in the Source List does not necessarily mean the item will be useful. The bibliography is intended to be representative of the literature of the field, and many of the criteria

discussed in the section on evaluating information were not applied, including appropriateness of format and technique, accuracy, and writing style.

The search for materials to include was started by students in a course called Sources of Information in Instructional Technology at the Rochester Institute of Technology, and expanded through the use of the Syracuse University Libraries Information Retrieval Service (SULIRS). Numerous other sources were also consulted; they are listed in the Appendix. The search continued until no new items of interest were located.

The Source List includes blank space for you to record additional items useful to you. No bibliography is ever complete, and this one will be most useful if you add to it as you find new items of interest.

SOURCE LIST: MONOGRAPHS

INSTRUCTIONAL TECHNOLOGY

Association for Programmed Learning and Educational Technology. Educational technology in a changing world. New York: Nichols, 1978.

Botkin, J. W., Elmandjra, M., and Malitza, M. No limits to learning. New York: Pergamon, 1979.

The contribution of educational technology and higher education in the 1990's. London: Council for Educational Technology, 1979.

Contributions to an educational technology. New York: Nichols, 1972 - .

Educational Technology Reviews Series. Englewood Cliffs, NJ: Educational Technology, 1975 - .

Gage, N. L. Handbook of research on teaching. Chicago: Rand McNally, 1963.

Hills, P. J. The spread of educational technology. New York: Nichols, 1977.

Hug, W. E. Instructional technology: Factors influencing the field (Occasional Paper No. 1). Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 168 539.

Knapper, C. Evaluating instructional technology. London: Croom Helm, 1980. Distributed by Halsted Press.

Saettler, P. An assessment of the current status of educational technology. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1979. ED 179 247.

Saettler, P. A history of instructional technology. New York: McGraw-Hill, 1968.

Sleeman, P. J. Instructional media and technology: A guide to accountable learning systems. New York: Longman, 1979.

Tickton, S. G. (Ed.). To improve learning: An evaluation of instructional technology. (2 vols.). New York: Bowker, 1970.

Travers, R. M. W. (Ed.). Second handbook of research on teaching. Chicago: Rand McNally, 1973.

Wells, S. Instructional technology in developing countries: Decision making processes in education. New York: Praeger, 1976.

Wilkinson, G. Educational media, technology, and instructional productivity. (Occasional Paper No. 2). Syracuse, NY: ERIC Clearinghouse on Information Resources, 1980. ED 216 680.

Wittich, W. A. and Schuller, C. F. Instructional technology: Its nature and use. (6th ed.). New York: Harper and Row, 1979.

INSTRUCTIONAL TECHNOLOGY: BIBLIOGRAPHIES

Braden, Roberts A. One hundred book titles: A twelve foot shelf of basic references for instructional design and development. Educational Technology, 1981, 21 (9), 42-45.

Clarke, J. L. (Ed.). Educational development: A select bibliography. New York: Nichols, 1981.

Dodge, B. J. Audiovisual resources for teaching instructional technology. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 152 337.

Whitson, R. (Ed.). An annotated bibliography on the relationship between technological change and educational development. Paris: UNESCO, 1980.

INSTRUCTIONAL DEVELOPMENT

Baker, R. L. and Schulz, R. E. (Eds.). Instructional product development. New York: Van Nostrand Reinhold, 1971.

- Banathy, B. H., Instructional systems. Belmont, CA: Fearon, 1968.
- Barson, J. Instructional systems development: A demonstration and evaluation project. Final report. East Lansing, MI: Michigan State University, 1967. ED 020 673.
- Bass, R. K. and Lumsden, D. B. (Eds.). Instructional development: The state of the art. Columbus, OH: Collegiate Publishing, 1978.
- Branson, R. K. Interservice procedures for instructional systems development. Tallahassee, FL: Florida State University. Center for Educational Technology, 1975.
Phase I: Analyze (ED 122 018); Phase II: Design (ED 122 019); Phase III: Develop (ED 122 020); Phase IV: Implement and Phase V: Control (ED 122 021); Executive Summary and Model (ED 122 022).
- Briggs, L. J. Handbook of procedures for the design of instruction. (2d ed.). Englewood Cliffs, NJ: Educational Technology, 1981.
- Briggs, L. J. Handbook of procedures for design of instruction (AIR Monograph No. 4). Pittsburgh, PA: American Institute for Research, 1970.
- Briggs, L. J. (Ed.). Instructional design: Principles and application. Englewood Cliffs, NJ: Educational Technology, 1977.
- Coffey, J. Development of an open learning system for further education. London: Council for Educational Technology, 1978.
- Courseware development process. Minneapolis, MN: Control Data, 1979.
- Davis, R. H., Alexander, L. T., and Yelon, L. S. Learning systems design: An approach to the improvement of instruction. New York: McGraw-Hill, 1974.

- Diamond, R. M. and others. Instructional development for individualized learning in higher education. Englewood Cliffs, NJ: Educational Technology, 1975.
- Dick, W. and Carey, L. The systematic design of instruction. Glenview, IL: Scott Foresman, 1978.
- Durzo, J. J. Organization and implementation of instructional development in higher education: Some basic considerations. Paper presented at annual meeting of the Association for Educational Communications and Technology, Miami, 1977. ED 143 323.
- Gaff, J. Toward faculty renewal. San Francisco: Jossey-Bass, 1975.
- Gagne, R. M. and Briggs, L. J. Principles of instructional design. (2d ed.). New York: Holt, Rinehart, and Winston, 1979.
- Gustafson, K. L. Survey of instructional development models. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1981. ED 211 097.
- Kaufman, R. A. Educational system planning. Englewood Cliffs, NJ: Prentice-Hall, 1972.
- Kaufman, R. and English, F. W. Needs assessment: Concept and application. Englewood Cliffs, NJ: Educational Technology, 1979.
- Kemp, J. E. Instructional design: A plan for unit and course development. Belmont, CA: Lear Siegler/Fearon, 1971.
- Langdon, D. (Ed.). Instructional design library (Series 1. 20 vols.). Englewood Cliffs, NJ: Educational Technology, 1978.
- Titles: Adjunct study guide; Algorithms; Audio-tutorial; Audio-visual modules; Audio/workbook; Backward chaining; Construct lesson plan; Guided design; Group programs; Inquiry plan; Project plan; Individually responsive instruction; Simulation games; PSI; PI; Session plan; Student contracts; Teaching learning unit; Token economy; Tutor aids.

Langdon, D. (Ed.). Instructional design library (Series 2. 20 vols.). Englewood Cliffs, NJ: Educational Technology, 1978.

Titles: Core package; Direct instruction; Experiential learning packages; Instructional frame games; Job aids; Learner controlled instruction; Lecture method of instruction; Peer tutorial instruction; Pigors incident process of case study; PLATO; Protocol packages; Role playing; Role maps; Structured tutoring; Student planned acquisition of required knowledge (SPARK); Suggestive-accelerative learning and teaching; Teams-games-tournament: The team learning process; Tele-techniques: An instructional model for interactive teleconferencing; Three stage model of course design; TICCIT.

Langdon, D. (Ed.). Instructional design library (Series 3. 10 vols. planned). Englewood Cliffs, NJ: Educational Technology, 1981-.

Lorshen, K. P. The mastery approach to competency based education. New York: Academic Press, 1977.

Mager, R. F. Instructional module development. (6 vols.). Los Altos, CA: Mager Associates, 1977.

Mager, R. F. and Pipe, P. Criterion referenced instruction: Analysis, design, and implementation (9 vols.). Los Altos, CA: Mager Associates, 1st ed., 1976; some volumes in 2d ed., 1979.

Merrill, M. D. and Tennyson, R. D. Teaching concepts: An instructional design guide. Englewood Cliffs, NJ: Educational Technology, 1977.

Nathenson, M. B. and Henderson, E. S. Using student feedback to improve learning materials. London: Croom Helm, 1980. Distributed by Biblio Distribution Center, 81 Adams Drive, Totowa, NJ 07511.

O'Neil, H. F. Issues in instructional systems development. New York: Academic, 1979.

O'Neil, H. F. Procedures for instructional systems development. New York: Academic, 1979.

Orlosky, D. E. and Smith, B. Curriculum development issues and insights. Chicago: Rand McNally, 1978.

Popham, W. J. and Baker, E. L. Planning an instructional sequence. Englewood Cliffs, NJ: Prentice Hall, 1970.

Popham, W. J. and Baker, E. L. Systematic instruction. Englewood Cliffs, NJ: Prentice-Hall, 1970.

Pratt, D. Curriculum: Design and development. New York: Harcourt Brace Jovanovich, 1980.

Rackham, N. and Morgan, T. Behavior analysis in training. London: McGraw-Hill, 1977.

Romiszowski, A. J. Designing instructional systems. London, New York: Nichols, 1980.

Rowntree, D. Developing courses for students. New York: McGraw-Hill, 1981.

Tanner, D. and Tanner, L. Curriculum development: Theory and practice. New York: Collier Macmillan, 1980.

Waterman, F. T. Designing short term instructional programs. Washington, DC: Association for Teacher Educators, 1979.

INSTRUCTIONAL DEVELOPMENT: SETTING OBJECTIVES

Hannah, L. S. A comprehensive framework for instructional objectives: A guide to systematic planning and evaluation. Reading, MA: Addison-Wesley, 1977.

Kapfer, M. B. (Ed.). Behavioral objectives: The position of the pendulum. Englewood Cliffs, NJ: Educational Technology, 1978.

McAshan, H. M. Competency-based education and behavioral objectives. Englewood Cliffs, NJ: Educational Technology, 1979.

Mager, R. F. Goal analysis. Belmont, CA: Fearon, 1972.

Mager, R. F. Preparing instructional objectives. (2d ed.). Belmont, CA: Fearon, 1975.

Popham, W. J. and Baker, E. L. Establishing instructional goals: A programmed text. Englewood Cliffs, NJ: Prentice-Hall, 1970.

Taxonomy of educational objectives. New York: Longmans, Green and McKay, 1969, 1977.

Handbook 1. Cognitive Domain, Benjamin S. Bloom and others, 1977. Handbook 2. Affective Domain, David R. Krathwohl and others, 1969.

INSTRUCTIONAL DEVELOPMENT: BIBLIOGRAPHIES

Braden, Roberts A. One hundred book titles: A twelve foot shelf of basic references for instructional design and development. Educational Technology, 1981, 21 (9), 42-45.

Durzo, J. J., Diamond, R. M. and Doughty, P. L. Selected references related to the practice of instructional development: A place to start. Journal of Instructional Development, 1979, 2(4), 19-22.

Twelker, P. A., Urbach, F. D., and Buck, J. E. The systematic development of instruction: An overview and basic guide to the literature. Stanford, CA: ERIC Clearinghouse on Media and Technology, 1972. ED 059 629.

INSTRUCTIONAL MATERIALS

Anderson, R. H. Selecting and developing media for instruction. Madison, WI: American Society for Training and Development, 1976.

- Bartel, C. R. Instructional analysis and materials development. Chicago: American Technological Society, 1976.
- Bell, N. T. and Abedor, A. J. Developing audiovisual instructional modules for vocational and technical training. Englewood Cliffs, NJ: Educational Technology, 1977.
- Briggs, L. J. (Ed.). Instructional media: A procedure for the design of multimedia instruction. Pittsburgh, PA: American Institute for Research, 1967.
- Brown, J. W., Lewis, R. B., and Harcleroad, F. F. AV instruction: Technology, media, and methods. (4th ed.). New York: McGraw-Hill, 1973.
- Brown, J. W., Lewis, R. B., and Harcleroad, F. F. AV instructional technology manual for independent study. (5th ed.). New York: McGraw-Hill, 1977.
- Brown, R. M. Educational media: A competency based approach. Columbus, OH: Merrill, 1973.
- Cavert, C. Procedural guidelines for the design of mediated instruction. Washington, DC: Association for Educational Communications and Technology, 1974.
- Chu, G. C. and Schramm, W. Learning from television: What the research says. (Rev. ed.). Washington, DC: National Association of Educational Broadcasters, 1968. ED 014 900.
- Dale, E. Audiovisual methods in teaching. (3rd ed.). New York: Holt, Rinehart, and Winston, 1969.
- Dwyer, F. M. Strategies for improving visual learning: A handbook for the effective selection, design, and use of visualized materials. State College, PA: Learning Services, 1978.
- Gerlach, V. S. and Ely, D. P. Teaching and media: A systematic approach. (2d ed.). Englewood Cliffs, NJ: Prentice-Hall, 1980.
- Gorman, D. A. An instructional materials selection/decision prescription model. Dubuque, IA: Kendall/Hunt, 1976.

- Gropper, G. L. Diagnosis and revision in the development of instructional materials. Englewood Cliffs, NJ: Educational Technology, 1975.
- Gropper, G. L. and Glasgow, Z. Criteria for the selection and use of visuals in instruction. Englewood Cliffs, NJ: Educational Technology, 1971.
- Harris, D. Preparing instructional materials. London: Croom Helm, 1979. Distributed by Biblio Distribution Center, 81 Adams Drive, Totowa, NJ 07511.
- Hartley, J. Designing instructional text. New York: Nichols, 1978.
- Heidt, E. U. Instructional media and the individual learner: A classification and systems appraisal. New York: Nichols, 1978.
- Heinich, R., Molenda, M., and Russell, J. D. Instructional media and the new technologies of instruction. New York: Wiley, 1982.
- Hicks, W. B. and Tillin, A. M. Managing multimedia libraries. New York: Bowker, 1976.
- Kemp, J. E. Planning and producing audiovisual materials. (3rd ed.). Scranton, PA: Chandler, 1980.
- Olson, D. E. (Ed.). Media and symbols: The forms of expression, communication, and education. Chicago: University of Chicago Press, 1974.
- Rivers, W. L., Thompson, W., and Nyhan, M. J. (Eds.). Aspen handbook on the media. New York: Praeger, 1977.
- Romiszowski, A. J. The selection and use of instructional media: A systems approach. New York: Nichols, 1974.
- Schramm, W. L. Big media, little media: Tools and technologies for instruction. Beverly Hills, CA: Sage, 1977.
- Selecting media for learning. Washington, DC: Association for Educational Communications and Technology, 1974.

Stevenson, D. W. Courses, components, and exercises in technical communication. Urbana, IL: National Council of Teachers of English, 1981.

Wilkinson, G. L. Media in instruction: 60 years of research. Washington, DC: Association for Educational Communications and Technology, 1980.

Wilson, T. C., Pfister, F. C., and Fleury, B. E. The design of printed instructional materials: Research on illustrations and typography. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1981. ED 211 122.

Wood, R. K. and Woolley, R. D. An overview of videodisc technology and some potential applications in the library, information, and instructional sciences. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1980. ED 206 328.

Woodbury, M. Selecting materials for instruction: Vol. 1. Issues and policies. Littleton, CO: Libraries Unlimited, 1979.

INSTRUCTIONAL TECHNIQUES

Armstrong, D. G. Instructional skills handbook. Englewood Cliffs, NJ: Educational Technology, 1978.

Davies, W. K. J. Implementing individualized learning in schools and colleges. London: Council for Educational Technology, 1978.

Dukes, R. L. and Seidner, C. J. (Eds.). Learning with simulations and games. London: Sage, 1978.

Gropper, G. L. Instructional strategies. Englewood Cliffs, NJ: Educational Technology, 1974.

Holmberg, B. Distance education: A survey and bibliography. New York: Nichols, 1977.

Holmberg, B. Status and trends of distance education. New York: Nichols, 1981.

Kaye, T. and Rumble, G. (Eds.). Distance teaching for higher education. New York: Nichols, 1981.

Kosma, R. B., Belle, L., and Williams, G. W. Instructional techniques in higher education. Englewood Cliffs, NJ: Educational Technology, 1978.

McAleese, R. Perspectives on academic gaming and simulation 3. New York: Nichols, 1978.

Markel, S. Good frames and bad: A grammar of frame writing. (2d ed.). New York: Wiley, 1969.

Megarry, J. Aspects of simulation and gaming. New York: Nichols, 1977.

Megarry, J. Perspectives on academic gaming and simulation 1 & 2. New York: Nichols, 1978-.

Noble, P. Resource based learning in post compulsory education. New York: Nichols, 1980.

Pipe, P. Practical programming. New York: Holt, Rinehart, and Winston, 1966.

Seaman, D. F. Adult education teaching techniques. (Information Series No. 110). Columbus, OH: ERIC Clearinghouse on Career Education, 1977 ED 149 180.

TRAINING AND HUMAN RESOURCE DEVELOPMENT

Butler, R. L. Industry/education cooperation for adult continuing education (Information Series No. 111). Columbus, OH: ERIC Clearinghouse on Career Education, 1977. ED 149 181.

Forbes, R. L. Educational technology and organization development: A collaborative approach. Greenwich, CT: Johnson Associates, 1975.

Kasworm, C. Competency-based adult education: A challenge of the 1980's (Information Series No. 208). Columbus, OH: ERIC

Clearinghouse on Adult, Career, and Vocational Education,
1980. ED 193 528.

Kramlinger, T. and Zemke, R. Figuring things out. Reading, MA:
Addison-Wesley, 1981.

Laird, D. Approaches to training and development. Reading, MA:
Addison-Wesley, 1978.

Levine, S. B. Human resources in Japanese industrial development.
Princeton, NJ: Princeton University Press, 1980.

Lusterman, S. Education in industry. New York: The Conference
Board, 1977.

Mager, R. F. and Beach, K. M. Developing vocational instruction.
Belmont, CA: Fearon, 1967.

Mager, R. F. and Pipe, P. Analyzing performance problems.
Belmont, CA: Fearon, 1970.

Nadler, L. Corporate human resource development: A management
tool. Madison, WI: American Society for Training and
Development, 1980.

Romiszowski, A. J. Designing industrial learning systems: Decision
making in course planning and curriculum design. New York:
Nichols, 1981.

COMPUTERS IN EDUCATION

Bailey, D. E. (Ed.). Computer science in social and behavioral
science education. Englewood Cliffs, NJ: Educational
Technology, 1978.

Baker, F. B. Computer managed instruction: Theory and practice.
Englewood Cliffs, NJ: Educational Technology, 1976.

Computers and communication: Implications for education.
Proceedings of the Conference on Computer Technology In
Education for 1985 at Airlie House, Warrenton, VA, September
15-18, 1975. New York: Academic, 1977.

Frederick, F. J. Guide to microcomputers. Syracuse, NY: ERIC
Clearinghouse on Information Resources; Washington, DC:
Association for Educational Communications and Technology,
1980. ED 192 818.

Huntington, J. F. Computer assisted instruction using BASIC.
Englewood Cliffs, NJ: Educational Technology, 1979.

King, A. T. Impact of computer based instruction on attitudes of
students and instructors: A review. Washington, DC:
American Psychological Association, 1976.

Lipsey, G. Computer-assisted test construction. Englewood Cliffs,
NJ: Educational Technology, 1974.

Moore, M. V. Educational effectiveness of application displays for
computer assisted instruction. Washington, DC: American
Psychological Association, 1979.

O'Neil, H. F. Computer based instruction: A state of the art
assessment. New York: Academic, 1981.

Oriansky, J. Cost effectiveness of computer based instruction in
military training. Washington, DC: American Psychological
Association, 1980.

Phillips, J. R. Use of computer-assisted instruction in developing
psychomotor skills related to heavy machine operation.
Washington, DC: American Psychological Association, 1979.

Rahmlow, H. F. PLATO. Englewood Cliffs, NJ: Educational
Technology, 1980.

Rushby, N. J. Computers in the teaching process. New York: Wiley,
1979.

Sledge, D. (Ed.). Microcomputers in education. London: Council for Educational Technology, 1979.

Taylor, R. P. (Ed.). The computer in the school: Tutor, tool, tutee. New York: Teacher's College Press, 1980.

COMPUTERS IN EDUCATION: BIBLIOGRAPHIES

Beard, M. Computer assisted instruction: The best of ERIC, 1973-1976. Stanford, CA: ERIC Clearinghouse on Information Resources, 1976. ED 125 608.

Hall, K. A. Computer-based education: The best of ERIC, June 1976-August, 1980. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1980. ED 195 288.

LEARNING THEORY AND APPLIED BEHAVIORAL SCIENCE

Ausubel, D. F. Educational psychology: A cognitive review. New York: Holt, Rinehart, and Winston, 1968.

Ausubel, D. F. The psychology of meaningful verbal learning. New York: Grune and Stratton, 1963.

Bandura, A. Social learning theory. Englewood Cliffs, NJ: Prentice-Hall, 1977.

Barnes, D. and Todd, F. Communication and learning in small groups. London: Routledge and Kegan Paul, 1977.

Berlo, D. K. The process of communication. New York: Holt, Rinehart and Winston, 1960.

Block, J. H. (Ed.). Mastery learning: Theory and practice. New York: Holt, Rinehart, and Winston, 1971.

Bruner, J. S. Towards a theory of instruction. New York: Norton, 1966.

Cherry, C. On human communication. New York: Wiley, 1957.

- Conellan, T. E. How to improve human performance: Behaviorism in business and industry. New York: Harper and Row, 1978.
- Fleming, M. L. Instructional message design: Principles from the behavioral sciences. Englewood Cliffs, NJ: Educational Technology, 1978.
- Gage, N. L. and Berliner, D. C. Educational psychology. (2d ed.). Chicago: Rand McNally, 1979.
- Gagne, R. The conditions of learning. (3d ed.). New York: Holt, Rinehart, and Winston, 1977.
- Gilbert, T. Human competence: Engineering worthy performance. New York: McGraw-Hill, 1978.
- Gilbert, T. F. Mathetics: An explicit theory for the design of teaching programmes. Reprinted in Supplement I of Review of Educational Cybernetics and Applied Linguistics. London: Longman, 1969.
- Glaser, R. Advances in instructional psychology. New York: Wiley, 1978-.
- Keller, J. M., Kelly, E. F., and Dodge, B. J. A practitioner's guide to concepts and measures of motivation. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 169 953.
- Klausmeier, H. J. Learning and teaching concepts: A strategy for testing applications of theory. New York: Academic, 1980.
- Logan, F. A. and Ferraro, D. P. Systematic analysis of learning and motivation. New York: Wiley, 1978.
- Mager, R. F. Developing attitudes toward learning. Belmont, CA: Fearon, 1968.
- Messick, S. and others. Individuality in learning. San Francisco: Jossey-Bass, 1978.

- Peterson, L. R. Learning. Glenview, IL: Scott Foresman, 1978.
- Sahakian, W. S. Introduction to the psychology of learning. Chicago: Rand McNally, 1976.
- Sahakian, W. S. (Ed.). Learning systems: Models and theories. Chicago: Rand McNally, 1976.
- Schramm, W. L. (Ed.). The science of human communication. New York: Basic, 1963.
- Shulman, L. S. and Keisler, E. R. (Eds.). Learning by discovery: A critical appraisal. Chicago: Rand McNally, 1967.
- Skinner, B. F. The technology of teaching. New York: Appleton, Century, Crofts, 1968.
- Smith, J. K. Perspectives on mastery learning and mastery testing (ERIC TM Report 63). Princeton, NJ: ERIC Clearinghouse on Tests, Measurement, and Evaluation, 1977. ED-152 813.
- Snelbecker, G. E. Learning theory, instructional theory, and psycho-educational design. New York: McGraw-Hill, 1974.

SYSTEMS THEORY

- Churchman, C. W. The systems approach. New York: Dell, 1968.
- Laszlo, E. (Ed.). The relevance of general systems theory. New York: Braziller, 1972.
- Mesarovic, M. D. (Ed.). Views on general systems theory. New York: Wiley, 1964.
- Sutherland, J. W. A general systems philosophy for the social and behavioral sciences. New York: Braziller, 1973.
- Von Bertalanffy, L. General systems theory. New York: Braziller, 1968.

Wiener, M. Cybernetics. Cambridge, MA: Massachusetts Institute of Technology, 1948.

MANAGEMENT OF INSTRUCTIONAL PROGRAMS

Chisholm, M. E. and Ely, D. P. Media personnel in education: A competency approach. Englewood Cliffs, NJ: Prentice-Hall, 1975.

Cook, D. L. Educational project management. Columbus, OH: Merrill, 1971.

Doughty, P., Lent, R., and Beilby, A. Cost-effectiveness analysis and instructional technology: A review of conceptual issues and selected references. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 179 249.

Gray, H. L. Management in education. Driffield, UK: Nafferton Books, 1980.

Harrison, S. A., and Stolurow, L. M. (Eds.). Improving instructional productivity in higher education. Englewood Cliffs, NJ: Educational Technology, 1975.

Havelock, R. G. The change agent's guide to innovation in education. Englewood Cliffs, NJ: Educational Technology, 1973.

Jamison, D. Cost factors in planning educational technology systems. Paris: UNESCO, 1977.

Jamison, D. The costs of educational media: Guidelines for planning and evaluation. Beverly Hills, CA: Sage, 1978.

Kozoll, C. E. Staff development in organizations: A cost evaluation manual for managers and trainers. Reading, MA: Addison Wesley, 1974.

Kurpius, D. J., Baker, R. D., and Thomas, I. D. (Eds.). Supervision of applied training: A comparative review. Westport, CT: Greenwood, 1977.

Tucker, R. N. The organization and management of educational technology. London: Croom Helm, 1979. Distributed by Biblio Distribution Center, 81 Adams Drive, Totowa, NJ 07511.

Tuma, D. T. Innovation and productivity in higher education. San Francisco: San Francisco Press, 1977.

FACILITIES DESIGN

Atherton, B. Adapting spaces for resource based learning. London: Council for Educational Technology, 1980.

Eash, M. J. and Talmage, H. Evaluation of learning environments (TM Report 43). Princeton, NJ: ERIC Clearinghouse on Tests, Measurements, and Evaluation, 1975. ED 117 187.

Educational Facilities Laboratories. Communications technologies in higher education: 22 profiles. Washington, DC: Communications Press, 1977.

Green, A. C. (Ed.). Educational facilities with new media. Washington, DC: National Education Association, Department of Audiovisual Instruction; Troy, NY: Rensselaer Polytechnic Institute, 1975.

Knirk, F. G. Designing productive learning environments. Englewood Cliffs, NJ: Educational Technology, 1979.

New spaces for learning: The design of college facilities to utilize instructional aids and media. (Rev. ed.). Troy, NY: Rensselaer Polytechnic Institute, 1966.

Piele, P. and Wright, D. Educational specifications (Educational Facilities Digest 6). Eugene, OR: ERIC Clearinghouse on Educational Management; Columbus, OH: Council of Educational Facility Planners, 1976. ED 123 697.

South, P. The design of learning spaces. London: Council for Educational Technology, 1974.

EVALUATION

- Anderson, S. B. The profession and practice of program evaluation. San Francisco: Jossey-Bass, 1978.
- Bellack, A. A. and Kliebard, H. M. (Eds.). Curriculum and evaluation. Berkeley: McCutchan, 1977.
- Bellack, A. and Kliebard, H. (Eds.). Evaluation and curriculum development. New York: Wiley/American Educational Research Association, 1976.
- Berk, R. A. Educational evaluation methodology: The state of the art. Baltimore, MD: Johns Hopkins Press, 1981.
- Billings, D. Indicators of performance. Guildford, U.K.: Society for Research in Higher Education, 1979.
- Bloom, B. S. Evaluation to improve learning. New York: McGraw-Hill, 1981.
- Bloom, B. S., Hastings, J. T., and Madus, G. F. Handbook on formative and summative evaluation of student learning. New York: McGraw-Hill, 1971.
- Borich, G. D. Evaluating classroom instruction: A sourcebook of instruments. Reading, MA: Addison Wesley, 1977.
- Copperud, C. The test design handbook. Englewood Cliffs, NJ: Educational Technology, 1979.
- Gooler, D. D. A classification of evaluation studies of instructional technology included in the ERIC system. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 180 498.
- Kosecoff, J. and Fink, A. The appropriateness of criterion-referenced tests for evaluation studies. Princeton, NJ: ERIC Clearinghouse on Tests, Measurement, and Evaluation, 1976. ED 135 841.
- Mager, R. F. Measuring instructional intent. Belmont, CA: Fearon, 1973.

- Martuza, V. R. Applying norm-referenced measurement in education. Boston: Allyn and Bacon, 1977.
- Mehrens, W. A. Measurement and evaluation in education and psychology. (2d ed.). New York: Holt, Rinehart and Winston, 1978.
- Payne, D. A. The assessment of learning. Boston: D. C. Heath, 1974.
- Popin, W. J. Criterion referenced instruction. Belmont, CA: Fearon, 1973.
- Popham, W. J. Criterion-referenced measurement. Englewood Cliffs, NJ: Prentice-Hall, 1978.
- Popham, W. J. Educational evaluation. Englewood Cliffs, NJ: Prentice-Hall, 1975.
- Popham, W. J. (Ed.). Evaluation in education. Berkeley: McCutchan, 1974.
- Rahmlow, H. F., and Woodley, K. K. Objective-based testing: A guide to effective test development. Englewood Cliffs, NJ: Educational Technology, 1979.
- Raizer, A. Program-evaluation in education: When? How? To what end? Washington, DC: National Academy Press, 1981.
- Rose, C. and Nyre, G. F. The practice of evaluation (ERIC TM Report 65). Princeton, NJ: ERIC Clearinghouse on Tests, Measurement, and Evaluation, 1977. ED 152 859.
- Straughan, R. and Wrigley, J. Values and evaluation in education. New York: Harper and Row, 1980.
- Thorndike, R. L. Measurement and evaluation in psychology and education. (4th ed.). New York: Wiley, 1977.
- Tuchman, B. W. Evaluating instructional programs. Boston: Allyn and Bacon, 1979.

Tyler, R. (Ed.). Educational evaluation: New roles, new means. Chicago: University of Chicago Press, 1969.

Tyler, R., Gagne, R., and Scriven, M. (Eds.). Perspectives of curriculum evaluation (AERA Monograph Series on Curriculum Evaluation No. 1). Chicago: Rand McNally, 1967.

Wolf, R. M. Evaluation in education: Foundations of competency assessment and program review. New York: Praeger, 1979.

EVALUATION: BIBLIOGRAPHIES

Backer, R. E. A directory of information on tests (ERIC TM Report 62). Princeton, NJ: ERIC Clearinghouse on Tests, Measurement, and Evaluation, 1977. ED 152 802.

Buros, O. K. (Ed.). Mental measurements yearbook. Highland Park, NJ: Gryphon Press and other imprints, 1st- 1938-. Irregular every 3-5 years.

Buros, O. K. Tests in print II. Highland Park, NJ: Gryphon Press, 1974.

RESEARCH AND STATISTICS

Ary, D., Jacobs, L. C., and Razavieh, A. Introduction to research in education. New York: Holt, Rinehart, and Winston, 1972.

Babbie, E. R. Survey research methods. Belmont, CA: Wadsworth, 1973.

Campbell, D. T. and Stanley, J. C. Experimental and quasi-experimental designs for research. Chicago: Rand McNally, 1966.

Clark, R. E. and Snow, R. E. Alternative designs for instructional technology and research. Stanford, CA: ERIC Clearinghouse on Information Resources, 1976. ED 119 605. (ERIC/AECT Annual Review Article in AV Communications Review, 1975, 23, 373-394.)

- Cronbach, L. J. Aptitudes and instructional methods: A handbook for research on interventions. New York: Irvington, distributed by Halsted, 1977.
- Dockrell, W. B. and Hamilton, D. (Eds.). Rethinking educational research. London: Hodder and Stoughton, 1980.
- Katzer, J., Cook, K., and Crouch, W. W. Evaluating information. (2d ed.). Reading, MA: Addison Wesley, 1982.
- Kerlinger, F. N. Foundations of behavioral research. (2d ed.). New York: Holt, Rinehart, and Winston, 1973.
- Minium, R. W. Statistical reasoning in psychology and education. New York: Wiley, 1970.
- Schwen, T. M. Professional scholarship in educational technology: Criteria for judging inquiry. Stanford, CA: ERIC Clearinghouse on Information Resources, 1976. ED 128 004.
- Spradley, J. Participant observation. New York: Holt, Rinehart, and Winston, 1980.
- Talmage, H. Statistics as a tool for educational practitioners. Berkeley, CA: McCutchan, 1976.
- Webb, E. J., Campbell, D. T., Schwartz, R. D., and Sechrest, L. Unobtrusive measures. Chicago: Rand McNally, 1966.

**REFERENCE WORKS: DICTIONARIES, GLOSSARIES,
AND TERMINOLOGY**

- Dictionary of education. (3d ed.). Edited by C. V. Good. New York: McGraw-Hill, 1973.
- Dictionary of visual language. Edited by P. Davenport and P. Thompson. New York: St. Martin's Press, 1980.
- Educational technology: A glossary of terms. -Washington, DC: Association for Educational Communications and Technology, 1977.

A glossary of ERIC terminology. Compiled by M. Laubacher. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978.

A handbook of standard terminology and a guide for recording and reporting information about educational technology. (Handbook X). Edited by I. N. Seibert. Washington, DC: U.S. Department of Health, Education, and Welfare, 1975.

International dictionary of education. Edited by G. Terry Page. New York: Nichols, 1977.

Media equipment: A guide and dictionary. Edited by K. C. Rosenberg and J. S. Doskey. Littleton, CO: Libraries Unlimited, 1976.

Standard terminology for curriculum and instruction in local school systems. Washington, DC: U.S. Department of Health, Education, and Welfare, 1970.

Terminology of adult education. Edited by C. J. Titmus. Paris: UNESCO, 1979.

Thesaurus of ERIC descriptors. Completely Revised. Phoenix, AZ: Oryx Press, 1980.

REFERENCE WORKS: ENCYCLOPEDIAS

Encyclopedia of education. New York: Macmillan, 1971.

The encyclopedia of educational media, communications, and technology. Edited by D. Unwin and R. McAleese. Westport, CT: Greenwood, 1978.

Encyclopedia of educational evaluation: Concepts and techniques for evaluating education and training programs. Edited by S. B. Anderson and others. San Francisco: Jossey-Bass, 1975.

Encyclopedia of educational research. (4th ed.). Edited by R. L. Ebél. New York: Macmillan, 1969.

The international encyclopedia of higher education. Edited by A. S. Knowles. San Francisco: Jossey-Bass, 1977.

REFERENCE WORKS: DIRECTORIES

Education and information science libraries, including audiovisual, picture, publishing, rarebook and recreational libraries. (2d ed.). Edited by M. L. Young. Detroit, MI: Gale, 1977.

Education directory. Washington, DC: U.S. Office of Education, 1966-.

Titles: Education directory: Colleges and universities, 1977-78; Education directory: Associations, 1976; Education directory: State education agency officials, 1978-79.

Masters curricula in educational communications and technology: A descriptive directory. Edited by J. K. Johnson. Syracuse, NY: ERIC Clearinghouse on Information Resources: Washington, DC: Association for Educational Communications and Technology, 1981. ED 205 168.

Training and development organizations directory: A reference work describing firms, institutions, and other agencies offering training programs for business, industry, and government. Edited by P. Wasserman. Detroit: Gale, 1978.

REFERENCE WORKS: YEARBOOKS AND STATISTICS

Aspects of Educational Technology. Proceedings of the Annual Conference of the Association for Programmed Learning (and Educational Technology), later the Association for Educational and Training Technology. London, 1966-.

Digest of Educational Statistics. Washington, DC: U.S. Office of Education, 1962-.

Educational Media Yearbook. New York: Bowker, 1973-1978;
Littleton, CO: Libraries Unlimited with the Association for
Educational Communications and Technology, 1980-.

International Yearbook of Educational and Instructional Technology.
New York: Nichols, 1976-.

Review of Research in Education. Washington, DC: American
Educational Research Association, 1973-.

Standard Education Almanac. Chicago: Marquis, 1968-69-.

REFERENCE WORKS: STANDARDS

Evaluative checklist: An instrument for self-evaluating an
educational media program in school systems. Edited by W. R.
Fulton and revised by K. I. King. Washington; DC: Association
for Educational Communications and Technology, 1969.

Guidelines for two-year college learning resources programs.
Chicago: American Library Association, 1972.

Media programs, district and school. Chicago: American Library
Association; Washington, DC: Association for Educational
Communications and Technology, 1975.

Standards for evaluation of educational programs, projects, and
materials. Compiled by the Joint Committee on Standards for
Educational Evaluation. New York: McGraw-Hill, 1981.

INSTRUCTIONAL MATERIALS: DIRECTORIES AND EVALUATIVE INFORMATION

Audiovisual Equipment Directory. Fairfax, VA: National Audiovisual
Association, 1977-78-.

Audiovisual Marketplace. New York: Bowker, 1974-.

EPIEgram: Materials. (18/yr.); EPIEgram: Equipment. (18/yr.); EPIE Reports. (8/yr.) New York: Educational Products Information Exchange, 1976-.

INSTRUCTIONAL MATERIALS: SOURCE LISTS

EFLA Evaluations. (5/yr.). New York: Educational Film Library Association, 1946-.

Educational film locator of the Consortium of University Film Centers and R. R. Bowker Company. (2 vols., 2nd ed.). New York: Bowker, 1980.

Guide to simulations-games for education and training. Edited by Robert E. Horn. Lexington, MA: Information Resources, 1976.

Guide to microforms in print, author-title. Edited by John J. Walsh. Westport, CT: Microform Review, 1978.

Learning independently. Edited by P. Wasserman, J. Sanders, and E. T. Sanders. Detroit, MI: Gale, 1979.

National Center for Audio Tapes 1974-76 Catalog. Boulder, CO: University of Colorado. Educational Media Center, 1974.

National Information Center for Educational Media (NICEM). Los Angeles, CA: University of Southern California.

Titles:

Index to educational audio tapes. (4th ed.). 1977.

Index to educational overhead transparencies. (5th ed.). 1977.

Index to educational records. (4th ed.). 1977.

Index to educational slides. (3d ed.). 1977.

Index to educational videotapes. (4th ed.). 1977.

Index to environmental studies--multimedia. 1977.

Index to free educational materials--multimedia. 1978.

Index to health and safety education--multimedia. (3d ed.). 1977.

Index to producers and distributors. (4th ed.). 1977.

Index to psychology--multimedia. (3d ed.). 1977.

Index to vocational and technical education--multimedia. (3d ed.). 1977.

Index to 8mm motion cartridges. (5th ed.). 1977.

Index to 16mm educational films. (4 vols., 6th ed.). 1977.

Index to 35mm educational filmstrips. (3 vols., 6th ed.). 1977.

National Information Center for Educational Media (NICEM). Update of non-book media. (4th ed., microfiche). Los Angeles: University of Southern California, 1978--.

Programmed learning and individually paced instruction bibliography. (5th ed.). Compiled by C. H. Hendershot. Bay City, MI: Hendershot Programmed Learning Consultants, 1977.

BIBLIOGRAPHIES OF SOURCE LISTS

Daniel, E. H. Media in the library: A selected, annotated bibliography. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1978. ED 168 590.

Index to instructional media catalogs. New York: Bowker, 1974.

Rawnsley, D. E. A comparison of guides to non-print media. Stanford, CA: ERIC Clearinghouse on Information Resources, 1975. ED 104 375.

Rufsvold, M. I. Guides to educational media. (4th ed.). Chicago: American Library Association, 1977.

Sive, M. R. Selecting instructional media: A guide to audiovisual and other instructional media lists. Littleton, CO: Libraries Unlimited, 1978.

Taggart, D. T. A guide to sources in educational media and technology. Metuchen, NJ: Scarecrow, 1975.

INDEXES AND DATABASES: INDEXES

Business Periodicals Index. New York: Wilson, 1958-. Monthly. Annual cumulations.

Computer Literature Index. Phoenix, AZ: Applied Computer Research, 1970-. Quarterly. Annual cumulations.

Current Index to Journals in Education (CIJE). New York: Macmillan, 1969-1978; Phoenix, AZ: Oryx Press, 1979-. Monthly. Annual cumulations.

Dissertation Abstracts International. Ann Arbor, MI: University Microfilms, v. 30-1969-. Annual index. (Earlier volumes have varying titles.)

Education Index. New York: Wilson, 1929-. Monthly, 10/year.

Psychological Abstracts. Washington, DC: American Psychological Association, 1927-. Bimonthly. Annual index.

Resources in Education (RIE). Washington, DC: U.S. Government Printing Office, 1967-. Monthly. Annual cumulation.

Resources in Vocational Education. Columbus, OH: National Center for Research in Vocational Education, 1977-. Bimonthly. Published under the title Abstracts of Instructional and Research Materials in Vocational and Technical Education (AIM/ARM), 1967-1976.

DATABASES: EXAMPLES

Note: Each listing consists of the following elements: Name of database. Beginning date. Print version, if any. Availability. Note concerning subjects covered if necessary. The vendors are Lockheed (DIALOG), SDC (ORBIT), and BRS. Their addresses are in the section of the text on databases.

ABI/INFORM. August, 1971-. No print version. Through vendors only. Covers business management periodicals.

Comprehensive Dissertation Index. 1861-. Dissertation Abstracts International and earlier titles. Online through vendors only.

ERIC (Educational Resources Information Center). 1966-. Resources in Education (RIE) and Current Index to Journals in Education (CIJE). Through vendors, or tapes by subscription from the ERIC Processing and Reference Facility, 4833 Rugby Ave., Suite 303, Bethesda, MD 20014.

Foundation Directory. Revised semiannually. Foundation Directory. Through DIALOG.

Management Contents Data Base. 1974-. Management Contents. Through vendors and tape lease from Box 1054, Skokie, IL 60077.

NICEM (National Information Center for Educational Media). 1966-. The NICEM Indexes. Through DIALOG or direct mail, NICEM, University of Southern California, University Park, Los Angeles, CA 90007.

Psychological Abstracts. 1967-. Psychological Abstracts. Through vendors or direct mail, American Psychological Association, 1200 Seventeenth Street, NW, Washington, DC 20036.

Social Scisearch. 1972-. Social Sciences Citation Index. Through DIALOG and BRS.

DATABASES: DIRECTORIES

Databases and clearinghouses: Information resources for education (Information Series No. 167.). Columbus, OH: Ohio State University. National Center for Research in Vocational Education, 1979. ED 184 534.

Directory of federal agency education data tapes. Compiled by B. A. Feller. Washington, DC: U.S. Government Printing Office, 1976.

Directory of online databases. Edited by R. N. Landau. Santa Monica, CA: Cuadra Associates, 1980.

Directory of on-line information resources. (6th ed.). Rockville, MD:
CSG Press, 1980.

Online bibliographic databases (directory). (2d ed.). London: Aslib,
1981.

SOURCE LIST: JOURNALS

INSTRUCTIONAL TECHNOLOGY AND EDUCATION

Appropriate Technology. Forest Grove, IL: International Scholarly Book Services, 1974-. Quarterly.

British Journal of Educational Technology. London: Council for Educational Technology, 1970-. 3/year.

CET News. London: Council for Educational Technology, date unknown. Quarterly.

Educational Communication and Technology: A Journal of Theory, Research, and Development. Washington, DC: Association for Educational Communications and Technology, v. 26- 1978-. Quarterly. Formerly AV Communication Review.

Educational Technology. Englewood Cliffs, NJ: Educational Technology, 1961-. Monthly.

Instructional Innovator. Washington, DC: Association for Educational Communications and Technology, v. 25- 1980-. 8/year. Formerly Audiovisual Instruction.

Instructional Technology. Mt. Arlington, NJ: Girard Associates, 1971-. Monthly.

Journal of Educational Technology Systems. Farmingdale, NY: Baywood, 1972-. Quarterly.

Programmed Learning and Educational Technology. London: Kogan Page for Association for Education and Training Technology, 1964-. Quarterly.

THE Journal: Technological Horizons in Education. Acton, MA: Information Synergy, 1974-. 6/year.

INSTRUCTIONAL DEVELOPMENT

Improving Human Performance Quarterly. Washington, DC: National Society for Performance and Instruction, 1972-1979. Quarterly. Ceased, Incorporated into Performance and Instruction.

Instructional Science. Amsterdam: Elsevier, 1971-. Quarterly.

International Journal of Man-Machine Studies. New York: Academic, 1969-. 6/year.

Journal of Experiential Learning and Simulation. New York: Elsevier/North Holland, 1979-1981. Quarterly. Ceased.

Journal of Instructional Development. Washington, DC: Association for Educational Communications and Technology, 1977-. Quarterly.

Journal of Technical Writing and Communication. Farmingdale, NY: Baywood, 1971-. Quarterly.

National Society for Performance and Instruction Journal. Washington, DC: The Society, 1962-1980. 10/year. Superseded by Performance and Instruction,

Performance and Instruction. Washington, DC: National Society for Performance and Instruction, 1980-. 10/year. Incorporates NSPI Journal and Improving Human Performance Quarterly.

Simulation/Games for Learning. London: Kogan Page for Society for Academic Gaming and Simulation in Education and Training, v.9- 1979-. Quarterly, formerly SAGSET Journal.

Society for Academic Gaming and Simulation in Education and Training (SAGSET) Journal. London: Kogan Page, 1970-1978. Superseded by Simulation/Games for Learning.

Simulation and Games. Beverley Hills, CA: Sage, 1970-. Quarterly.

Technical Communications. Washington, DC: Society for Technical Communication, 1953-. Quarterly.

INSTRUCTIONAL MATERIALS

AV Communication Review. Washington, DC: Association for Educational Communications and Technology, 1953-1977. Quarterly. Superseded by Educational Communication and Technology: A Journal of Theory, Research, and Development.

Audiovisual Communications. New York: United Business Publications, 1961-. Monthly.

Audiovisual Instruction. Washington, DC: Association for Educational Communications and Technology, 1956-1980. 9/year. Superseded by Instructional Innovator.

Audiovisual Notes from Kodak. Rochester, NY: Eastman Kodak, 1958-. Irregular.

Biomedical Communications. New York: United Business Publications, 1973-. Bimonthly.

Communication Quarterly. New Brunswick, NJ: Transaction Periodicals Consortium, Rutgers University, Institute for Research and Teaching, 1953-. Quarterly.

Communication Research. Beverly Hills, CA: Sage, 1974-. Quarterly.

HOPE Reports Quarterly. Rochester, NY: Hope Reports, Inc., 1972-. Looseleaf, quarterly.

HOPE Reports Perspective. Rochester, NY: Hope Reports, 1975-. Bimonthly.

Journal of Educational Television. Oxfordshire, U.K.: Carfax for the Educational Television Association (Micklegate, York), 1982-. 3/year. Formerly Journal of Educational Television and Other Media.

Journal of Educational Television and Other Media. Oxfordshire, U.K.: Carfax for the Educational Television Association (Micklegate, York), 1975-1982. 3/year. Superseded by Journal of Educational Television.

Multi-Images. Abington, PA: Association for Multi-Image, 1974?-Quarterly.

Visual Education. London: Educational Technology Exhibitions International, 1950-. 11/year.

TRAINING AND HUMAN RESOURCE DEVELOPMENT

Cross Reference on Human Resources Management. Chicago: American Hospital Association, 1966-. Bimonthly.

Training. London: Pitman for The Institute of Training and Development, 1975-. Monthly.

Training and Development Journal. Washington, DC: American Society for Training and Development, 1945-. Monthly.

Training: The Magazine of Human Resources Development. Minneapolis: Lakewood, 1964-. Monthly.

COMPUTERS

AEDS Journal. Washington, DC: Association for Educational Data Systems, 1967-. Quarterly.

AEDS Monitor. Washington, DC: Association for Educational Data Systems, 1962-. Quarterly.

Byte Magazine. Peterborough, NH: McGraw-Hill, 1975-. Monthly.

Computer Magazine. Piscataway, NJ: Service Center for Institute of Electrical and Electronics Engineers Computer Society, 1966-. Monthly.

Computers and People. Newtonville, MA: Berkeley Enterprises, 1951-. Monthly.

Creative Computing. Morristown, NJ: Ahl Computing, 1974-. Monthly.

Data Channels. Bethesda, MD: Phillips Publishing, 1973-. Monthly.

Database Magazine. Weston, CT: Online Inc., 1978-. Quarterly.

Datamation. New York: Technical Publishing, 1957-. Monthly.

Journal of Documentation. London: Aslib, 1945-. Quarterly.

Minicomputer News. Boston, MA: Harold Buchbinder, 1975-. Bi-weekly.

Personal Computing. Rochelle Park, NJ: Hayden, 1977-. Monthly.

Popular Computing. Peterborough, NH: BYTE Publications, 1981-. Monthly.

COMPUTERS IN EDUCATION

Computers and Education. Oxford: Pergamon, 1976-. Quarterly.

Courseware Magazine. Fresno, CA: School and Home Courseware, 1980-1982. 5/year. Superseded by School Courseware Journal.

Journal of Computer-Based Instruction. Bellingham, WA: Association for the Development of Computer-Based Instructional Systems, 1974-. Quarterly.

Pipeline. Iowa City, IA: CONDUIT, the University of Iowa, 1976-. 2/year.

School Courseware Journal. Fresno, CA: School and Home Courseware, v.2- 1982/83-. 5/year. Formerly Courseware Magazine.

SIGCUE Bulletin. New York: Association for Computing Machinery, Special Interest Group on Computer Uses in Education, 1967-. Quarterly.

RESEARCH AND EVALUATION

American Educational Research Journal. Washington, DC: American Educational Research Association, 1964-. Quarterly.

British Educational Research Journal. Dorchester-on-Thames, Oxford: Carfax for British Educational Research Association, 1975-. Semi-annual.

Curriculum Inquiry. New York: Wiley for Institute for Studies in Education (Toronto), 1968-. Quarterly.

Educational Researcher. Washington, DC: American Educational Research Association, 1964-. Monthly.

Evaluation in Education. Oxford: Pergamon, 1977-. 3/year.

Journal of Educational Research. Washington, DC: Heldref Publications, 1920-. Bimonthly.

Journal of Educational Statistics. Iowa City, IA: University of Iowa for the American Educational Research Association and the American Statistical Association, 1976-. Quarterly.

Review of Educational Research. Washington, DC: American Educational Research Association, 1931-. Quarterly.

Studies in Educational Evaluation. Oxford: Pergamon, 1974-. 3/year.

APPENDIX

The following sources were used to identify materials for inclusion in the Source List. The items listed below were consulted in the order in which they are listed.

1. Lists of materials identified by students in Sources of Information in Instructional Technology at the Rochester Institute of Technology, 1979-1981.
2. Syracuse University Libraries Information Retrieval System (SULIRS), the online catalog of Syracuse University.

The terms listed below were used with the search code WD, allowing retrieval of items with the terms in the title or among the subject headings assigned.

instructional technology
instructional development
instructional design
lesson planning
educational technology

training employees
training executives
management--education
management--instruction
management--instructional
management--training
evaluation--education
evaluation--instruction
evaluation--instructional
educational surveys

tests--education
test--education
mental tests
tests--learning
test--learning
testing--education
testing--learning

computer--instruction
computers--instruction
computer--education
computers--education

research--education
research--instruction
research--instructional

learning theory
learning psychology

directories--education
directories--training
directories--higher education

handbooks--education
handbooks--training
handbooks--higher education

encyclopedias--education
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encyclopedias--higher education

yearbooks--education
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statistics (shelves also checked)

3. Guide to educational resources. (4th ed.). Syracuse, NY: ERIC Clearinghouse on Information Resources, 1979.
4. International yearbook of educational and instructional technology. New York: Nichols, 1982-. 1982 edition. Selected Bibliography and Journal List.
5. Educational media yearbook. New York: Bowker, 1973-1978; Littleton, CO: Libraries Unlimited with the Association for Educational Communications and Technology, 1980-. 7th edition. Mediagraphy, 1981.
6. Hug, W. E. Bibliography: Instructional technology and media. New York: Columbia University, Teacher's College, 1977.
7. ERIC Information Analysis Products. Washington, DC: National Institute of Education, 1975-77, 1979, 1980.
8. Gustafson, K. L. Survey of instructional development models. Syracuse, NY: ERIC Clearinghouse on Information Resources, 1981. ED 211 097.
9. Personal notes of Donald P. Ely.
10. Journal of Instructional Development and Educational Communication and Technology Journal book reviews, 1981-1982. (Full citations in journal list).
11. American Society for Training and Development. Publications catalog, 1982.

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