This list of recommended books and monographs was compiled by the Far West Laboratory for Educational Research and Development during a project designed to develop and test procedures to evaluate and disseminate information on training of education research and development (R&D) personnel. The purpose of the bibliography is to provide guidance for the acquisition of a core collection on training in the areas of theory and practice of educational research, development, diffusion, and evaluation. Its content is sociopsychological, reflecting current disciplinary foundations of educational R&D. Major content areas include planning and management; R&D theory and concepts; R&D process; R&D methodology; diffusion and change; evaluation; objectives and outcomes; tests and measurement; statistics; media; and R&D personnel and training. The majority of the listed items are available from publishers or other distributors. A few out-of-print items have been cited because they are considered unusually valuable. (Author/DDO)
PROJECT PRODUCT

Project No. RO29047  
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DESIGN OF A PERSONNEL AND TRAINING INFORMATION SYSTEM FOR EDUCATIONAL R&D PERSONNEL

RECOMMENDED BOOKS AND MONOGRAPHS

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August 1973

JAN 21 1974

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
National Institute of Education  
R&D Personnel Task Force
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This document has not been cleared for open publication.
In July 1972, the Far West Laboratory for Educational Research and Development initiated a project designed to develop and test procedures to evaluate and disseminate information on training of educational R&D personnel. During the Planning Phase of the project, a collection of over 1,000 items (e.g., books, monographs, journal articles, ERIC abstracts and citations, other references, microfiches, and instructional materials) was assembled to provide an experimental file. Later, during the Preliminary Design Phase, over 200 of these items were abstracted for use in pilot testing alternative dissemination methods. Six deliverable by-products have resulted from these activities: (1) A Source Book of Educational RDD&E Literature, (2) A Source Book of Educational RDD&E Case Studies, (3) Catalogue of Educational RDD&E Instructional Materials, (4) Educational RDD&E Personnel and Training Abstracts, (5) Recommended Journals and References, and (6) Recommended Books and Monographs. This document represents the sixth item.

This list of recommended books and monographs, along with the list of recommended journals and references, has been created to provide guidance for the acquisition of a "core" collection on training in the area of theory and practice of educational research, development, diffusion, and evaluation (RDD&E).

The content of this list has a decidedly social-psychological bias, reflecting current disciplinary foundations of educational R&D. Major content areas include: (1) educational R&D roles, policy, strategy and organization, (2) R&D planning and management, (3) R&D theory and concepts, (4) R&D process, (5) R&D methodology, (6) diffusion and change, (7) evaluation, (8) objectives and outcomes, (9) tests and measurement, (10) statistics, (11) media, and (12) R&D personnel and training.

Educational subject matter (e.g., curriculum, administration, financing, facilities, personnel) has been deliberately excluded on the assumption that the R&D training collection would draw from larger educational libraries to meet information needs in these areas. Similarly, a number of possibly relevant disciplinary areas (e.g., history, philosophy, biology, human nutrition, architecture, law) have not been included. Such areas are undoubtedly pertinent to education problems, but are rarely considered part of the educational R&D training curriculum. If a "stand-alone" collection must be created, however, selected holdings on education and related disciplines should be obtained.

Major headings were selected to correspond to commonly recognized categories in R&D course offerings and bibliographic classifications. Originally we attempted to create sharper distinctions between the research and the development categories. Since many of the recommended titles treat both subjects, we have employed the "R&D" combination to avoid arbitrary assignment to either research or development.
The subject areas of objectives and outcomes, tests and measurement, and statistics are sometimes associated with the content of research, development or evaluation. These are treated as separate categories. The area of media is most directly related to development of instructional products. The two areas have been separated, however, to set general instructional product development apart from more specific development areas, such as, instructional films, programmed instruction, or educational games.

The R&D personnel and training area is a distinct category. It includes documents dealing specifically with research on the educational R&D process, personnel requirements, supply and demand, training models and programs. The personnel and training category suggests the "structure" for which the other areas provide the "curriculum content."

The majority of the listed items are available from publishers or other distributors. A few out-of-print items have been cited because they were considered unusually valuable. If an item has been published by more than one organization, the most accessible source is identified. The 1972 issue of Books in Print is the source of most price information. In a few cases, the price information may be out of date. If an item is available in both cloth and paperback editions, both prices are noted.

The rationale, criteria and method for selecting items have been described in detail elsewhere (Hood, July 1973, pp. 1-11). Stated briefly, we have recommended a collection which should aim at quality, rather than comprehensiveness, and which should be responsive to users needs and NIE policy requirements, rather than passively representative of what is conveniently available. Effort was made to "balance" the collection among major areas, to provide adequate holdings in less well-documented areas and, especially, in high-need areas (e.g., evaluation), and to select specific items within a content area in terms of "marginal utilities."

Handbooks and collections of readings are included to provide "entry" pointed to a much broader range of content. Several "annual reviews" included in the Recommended Journals and References also serve this purpose.

This list is submitted only as a starter. We make no claims for comprehensiveness. Time and resources available were simply insufficient. The list is based on the experimental collection established during the early Design Phase of the project, but has been updated and enriched. It reflects primarily the judgment of the writer. There is more redundancy among items in some areas than our "marginal utility" rule would allow. Clearly, there are omissions. The subject areas we have attempted to encompass and the limited time available to search and evaluate items have prevented a more definitive work. Nevertheless, we believe the list will prove useful, if it is subjected to external review and criticism, preferably by several persons conversant with the several subject areas, and then refined. The design project's resources and time line have precluded this needed step.

Paul D. Hood
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EDUCATIONAL R&D

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY


Callahan, R. E. Education and the Cult of Efficiency. Chicago, Ill.: The University of Chicago Press, 1962. $2.45.


EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)


Ibid., No. 2. Implications for Education of Prospective Changes in Society, 1967. $3.25 LC 67-22888.
EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)

Ibid., No. 3. Planning & Effecting Needed Changes in Education. 1967. $3.25 LC 67-24865.


Ibid., No. 6. Planning for Effective Utilization of Technology in Education. 1969. $3.25 LC 67-22887.


EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)

Silberman, C. E. Crisis in the Classroom: The Remaking of American Education. New York: Random House, 1970. $10.00


EDUCATIONAL R&D--ORGANIZATION, R&D CENTERS, LABORATORIES


EDUCATIONAL R&D--JOURNAL ARTICLES*

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY


*The relative dearth of pertinent books on educational R&D roles, policy and strategy and on R&D organizations prompted us to make an exception by listing relevant journal articles in these areas. Our recommendation is that these articles be copied and placed either in separate folders in an adjacent vertical file or in cardboard covers with the books and monographs.
EDUCATIONAL R&D--ORGANIZATION, R&D CENTERS, LABORATORIES


R&D PLANNING AND MANAGEMENT

R&D PLANNING AND MANAGEMENT--PLANNING AND CONTROL


Leavitt and Pondy (eds.) Readings in Managerial Psychology. Chicago: University of Chicago Press, 1964. $10.00; pap. $4.75


R&D PLANNING AND MANAGEMENT--PLANNING, PROGRAMMING, BUDGETING AND INFORMATION SYSTEMS


R&D PLANNING AND MANAGEMENT--PLANNING, PROGRAMMING, BUDGETING, AND INFORMATION SYSTEMS (CONTINUED)


R&D PLANNING AND MANAGEMENT--R&D PROJECT MANAGEMENT AND EVALUATION


Mason, E. J. On the Appropriate Size of a Development Program. AMS Press, 1964. $7.50


R&D PLANNING AND MANAGEMENT--COST AND ANALYSIS FOR PLANNING


R&D PLANNING AND MANAGEMENT--POLITICAL ASPECTS


*The relative dearth of pertinent books on educational R&D roles, policy and strategy and on R&D organizations prompted us to make an exception by listing relevant journal articles in these areas. Our recommendation is that these articles be copied and placed either in separate folders in an adjacent vertical file or in cardboard covers with the books and monographs.
R&D THEORY AND CONCEPTS

R&D THEORY AND CONCEPTS--SCIENTIFIC THEORY AND MODELS


Bergmann, G. Philosophy of Science. Madison, Wis.: University of Wisconsin Press, 1957. $1.95.


Hanson, N. R. Observation and Explanation: A Guide to Philosophy of Science. New York: Harper Torchbook, 1971. $5.00; pap. $1.50

R&D THEORY AND CONCEPTS--SCIENTIFIC THEORY AND MODELS (CONTINUED)


Scheffler, I. Science and Subjectivity. Indianapolis, Ind.: Bobbs-Merrill, 1967. $6.00; pap. $2.25

R&D THEORY AND CONCEPTS--SOCIAL SCIENCE THEORY AND MODELS

Blacock, H. M. Jr. (ed.) Causal Models in the Social Sciences. Chicago: Aldine-Atherton, 1971. $15.00; text ed. $9.75, pap. $9.75


R&D THEORY AND CONCEPTS--SOCIAL SCIENCE THEORY AND MODELS (CONTINUED)


R&D THEORY AND CONCEPTS--EDUCATIONAL THEORY AND MODELS


R&D THEORY AND CONCEPTS--EDUCATIONAL THEORY AND MODELS (CONTINUED)


Joncich, G. M. (ed.) Psychology and the Science of Education. New York: Columbia University, Teachers College Press, 1962. $5.95; pap. $2.50


R&D THEORY AND CONCEPTS--INTELLIGENCE AND THINKING


R&D THEORY AND CONCEPTS--INTELLIGENCE AND THINKING (CONTINUED)


Whorf, B. L. Language, Thought and Reality. Cambridge, Mass.: MIT Press, 1956. $8.00; pap. $2.95

R&D THEORY AND CONCEPTS--LEARNING AND INSTRUCTION


R&D THEORY AND CONCEPTS--LEARNING AND INSTRUCTION (CONTINUED)


Schaefer, R. J. The School as Center of Inquiry. New York: Harper and Row, 1967. $3.95


R&D THEORY AND CONCEPTS--CHILD DEVELOPMENT


R&D PROCESS

R&D PROCESS--EDUCATIONAL RESEARCH


R&D PROCESS--EDUCATIONAL RESEARCH (CONTINUED)


R&D PROCESS--ORGANIZATIONAL


R&D PROCESS--ORGANIZATIONAL (CONTINUED)


R&D PROCESS--OPERATIONS AND SYSTEMS


Houle, C. O. The Design of Education. San Francisco: Jossey-Bass, $9.75 LC 76-186573

R&D PROCESS--OPERATIONS AND SYSTEMS (CONTINUED)


R&D PROCESS--DEVELOPMENT OF INSTRUCTIONAL PRODUCT


Banathy, B. Instructional Systems. Palo Alto, Ca.: Fearon Publishers, 1968. $2.00 LC 68-31771


R&D PROCESS--DEVELOPMENT OF INSTRUCTIONAL PRODUCT (CONTINUED)


R&D PROCESS--DEVELOPMENT OF INSTRUCTIONAL PRODUCT (CONTINUED)


R&D METHODOLOGY

R&D METHODOLOGY--GENERAL


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R&D METHODOLOGY--EXPERIMENTAL DESIGN


R&D METHODOLOGY--EXPERIMENTAL DESIGN (CONTINUED)


R&D METHODOLOGY--SURVEYS AND SAMPLING


R&D METHODOLOGY--SURVEYS AND SAMPLING (CONTINUED)

Sudman, S. Reducing the Cost of Surveys. (Social Research Monograph #10) Chicago: Aldine Atherton, 1967. $7.95

R&D METHODOLOGY--SPECIAL METHODS


DIFFUSION AND CHANGE

DIFFUSION AND CHANGE--SOCIAL CHANGE


DIFFUSION AND CHANGE--INNOVATION


Katz, M. B. Class, Bureaucracy and Schools: The Illusion of Educational Change in America. New York: Frederick A. Praeger, 1971. $5.95; pap. $2.25


DIFFUSION AND CHANGE--KNOWLEDGE, PRODUCTION, COMMUNICATION AND UTILIZATION

Carlson, R. O. Adoption of Educational Innovations. Eugene, Oregon: Center for the Advanced Study of Educational Administration, University of Oregon, 1965. $2.00


DIFFUSION AND CHANGE--KNOWLEDGE, PRODUCTION, COMMUNICATION AND UTILIZATION
(CONTINUED)

Havelock, R. G. et al. A Comparative Study of the Literature on the Dissemi-
nation and Utilization of Scientific Knowledge. Ann Arbor, Mich.: University
of Michigan, Center for Research and Utilization of Scientific Knowledge, July, 1969.  (ERIC ED 029 171)

Havelock, R. G. Planning for Innovation through Dissemination and Utilization
of Knowledge. Ann Arbor, Mich.: Center for Research on the Utilization

Homewood, Ill.: Richard Irwin, 1963. $7.70

Lionberger, R. F. Adoption of New Ideas and Practices. Ames, Iowa: Center
for International Affairs, 1964.

Machlup, F. The Production and Distribution of Knowledge in the United States.

Miles, M. B. (ed.) Innovation in Education. New York: Horace Mann-Lincoln
Institute of School Experimentation, Teachers College, 1964.
LC 64-15445.

National Science Foundation. Knowledge Into Action: Improving the Nation's
Use of Social Science. A report of the Special Commission on Social Sciences

LC 62-15348.

Rogers, E., with Shoemaker, F. F. Communication of Innovations: A Cross-

U. S. Congress, House Select Committee on Government Research. Documentation

DIFFUSION AND CHANGE--IN EDUCATION

Blanke, V. E. Planning for Educational Change. In Theory Into Practice.

DIFFUSION AND CHANGE--IN EDUCATION (CONTINUED)


DIFFUSION AND CHANGE--ROLES


EVALUATION

EVALUATION: THEORY, STRATEGY, AND METHODOLOGY

American Institutes for Research. Evaluative Research. Pittsburgh: American Institutes for Research, 1970. $5.00 No. LC.


DIFFUSION AND CHANGE--IN EDUCATION (CONTINUED)


EVALUATION--THEORY, STRATEGY, AND METHODOLOGY (CONTINUED)


Popham, W. J. An Evaluation Guidebook. Los Angeles, Ca.: The Instructional Objectives Exchange, 1972. $2.50 No LC #.


EVALUATION--THEORY, STRATEGY, AND METHODOLOGY (CONTINUED)


EVALUATION--CURRICULUM, INSTRUCTION, PRODUCTS


EVALUATION -- CURRICULUM, INSTRUCTION, PRODUCTS (CONTINUED)


EVALUATION -- SOCIAL

EVALUATION--SOCIAL (CONTINUED)


EVALUATION--GUIDELINES FOR COMPENSATORY EDUCATION, PACE, AND OTHER PROGRAMS

Byram, W. M. & Robertson, M. Locally Directed Evaluation of Local Vocational Education Programs. Danville, Ill.: The Interstate, 1971. $3.00


EVALUATION--GUIDELINES FOR COMPENSATORY EDUCATION, PACE, AND OTHER PROGRAMS (CONTINUED)


EVALUATION--CAUSATION AND IMPACT


EVALUATION--CAUSATION AND IMPACT (CONTINUED)


OBJECTIVES AND OUTCOMES

OBJECTIVES AND OUTCOMES--GENERAL


Dillman, C. M. & Rahmlow, H. F. Writing Instructional Objectives. Belmont, Ca.: Fearon Publishers, 1972. $2.50 LC 70-180231

Dreeben, R. On What is Learned in School. Reading, Mass.: Addison-Wesley, 1968. $2.95


OBJECTIVES AND OUTCOMES--GENERAL (CONTINUED)


Mager, R. F. Preparing Instructional Objectives. Belmont, Ca.: Fearon Press, 1962. $2.00 No LC #.


Mager, R. F. Goal Analysis. Belmont, Ca.: Fearon Press, 1972. $2.95


Scriven, M. Students Values as Educational Objectives. Boulder, Colo.: Social Science Education Consortium, 1966. $1.00 Publication No. 124SSEC No. LC #.


TESTS AND MEASUREMENT

TESTS AND MEASUREMENT--GENERAL REFERENCES AND TEST CONSTRUCTION


TESTS AND MEASUREMENT--THEORY


Study Guide. $2.65


Cronbach, L. J. The Dependability of Behavior Science Measurements. New York: John Wiley and Sons. $12.95 LC 70-180269


Lord, F. M. & Novick, M. Statistical Theories of Mental Test Scores. Reading, Mass.: Addison-Wesley, 1968. $16.95


TESTS AND MEASUREMENT--READINGS


TESTS AND MEASUREMENT--SCHOOL TESTING


TESTS AND MEASUREMENT--SCHOOL TESTING (CONTINUED)


TESTS AND MEASUREMENT--REFERENCES FOR TESTS AND INSTRUMENTS


Bauer, R. A. Social Indicators. Cambridge, Mass.: MIT Press, 1967. $10.00; pap. $3.45


Miller, D. C. Handbook of Research Design and Social Measurement (2nd ed.). New York: David McKay Co., 1970. $6.95; pap. $4.95


STATISTICS

STATISTICS--GENERAL


Harris, C. W. (ed.). Problems in Measuring Change. Madison, Wis.: University of Wisconsin Press, 1963. $2.95


STATISTICS--BUSINESS, ECONOMIC AND SOCIOLOGICAL


Glass, G. V., Willison & Gottman.  **Design and Analysis of Time-Series.** Boulder, Colorado: Laboratory of Educational Research.


Rao, P. & Miller, R.  **Applied Econometrics.** Belmont, Calif.: Wadsworth, 1971. $13.25; text ed. $9.95


STATISTICS--BAYESIAN AND DECISION THEORY APPROACHES


Luce, R. D. & Raiffa, H.  **Games and Decisions.** New York: John Wiley and Sons, 1957. $11.25


Raiffa, H. & Schlaifer, R.  **Applied Statistical Decision Theory.** Boston: Harvard University Graduate School of Business Administration, Division of Research, 1961. $9.50
STATISTICS--BAYESIAN AND DECISION THEORY APPROACHES


STATISTICS--NONPARAMETRIC


STATISTICS--MULTIVARIATE ANALYSIS


Sonquist, J. A. Multivariate Model Building. Ann Arbor: Braun & Brumfield, 1970. $7.00; pap. $5.00


STATISTICS--REGRESSION AND DISCRIMINATORY ANALYSIS

Bottenberg, R. A., & Ward, J. H.  
Applied Multiple Linear Regression.  

Draper, N. R., & Smith, H.  
Applied Regression Analysis.  

Dubois, P. H.  
Multivariate Correlation Analysis.  

Multiple Regression Approach.  

Harmon, H.  
Modern Factor Analysis.  

Tatsuoka, M. M.  
Discriminant Analysis: The Study of Group Differences.  
Champaign, Ill.: Institute for Personality and Ability Testing, 1970.

STATISTICS--DATA PROCESSING

Bruning, J. L., & Kintz, B. L.  
Computational Handbook of Statistics.  

Dial, O. E.  
Computer Programming and Statistics for Basic Research.  

Lohes, P. R., & Cooley, W. W.  
New York: John Wiley and Sons, Inc., 1968. $9.75

Sterling, T. D., & Pollack, S. V.  
Introduction to Statistical Data Processing.  

Veldman, D. J.  
FORTRAN Programming for the Behavioral Sciences.  

Weiss, Eric (ed.)  
Computer Usage Fundamentals.  
MEDIA--GENERAL


MEDIA--GENERAL (CONTINUED)


MEDIA--FILMS, TELEVISION, AND OTHER AUDIO-VISUAL MEDIA


Palmer, E. L. Formative Research in the Production of Television for Children. NSSE Yearbook on Early Childhood Education.


MEDIA—PROGRAMMED INSTRUCTION, TEACHING MACHINES AND COMPUTERS


Jackson, P. W. The Teacher and the Machine (Horace Mann Lecture, No. 15.) Pittsburgh, Pa.: University of Pittsburgh Press, 1968. $2.95


MEDIA--PROGRAMMED INSTRUCTION, TEACHING MACHINES, AND COMPUTERS (CONTINUED)


MEDIA--GAMES AND SIMULATIONS


Tansey, P. J., & Uwin, D. Simulation and Gaming in Education. Scranton, Pa.: Bornes and Nobles, Division of Harper and Row (Published by Methuen), 1969. $5.00


R&D PERSONNEL AND TRAINING

R&D PERSONNEL AND TRAINING--RESEARCH ON EDUCATIONAL R&D


R&D PERSONNEL AND TRAINING--PERSONNEL REQUIREMENTS AND SUPPLY AND DEMAND


R&D PERSONNEL AND TRAINING--PERSONNEL REQUIREMENTS AND SUPPLY AND DEMAND (CONTINUED)


Fiedler, F. Possible Predictors of Research Productivity and Job Status. (Mimeo) Urbana, Ill.: University of Illinois, 1968.


R&D PERSONNEL AND TRAINING--PERSONNEL REQUIREMENTS AND SUPPLY AND DEMAND (CONTINUED)

Mangum, G. The Emergence of Manpower Policy. New York: Holt, Rinehart, and Winston, 1969. $3.00


R&D PERSONNEL AND TRAINING--PERSONNEL REQUIREMENTS AND SUPPLY AND DEMAND (CONTINUED)


R&D PERSONNEL AND TRAINING--INSTRUCTION AND TRAINING


R&D PERSONNEL AND TRAINING--INSTRUCTION AND TRAINING (CONTINUED)


