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DESCRIPTORS   *Architectural Programing, Bibliographies, *Campus
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                Facilities, *School Architecture, *School Buildings,
                School Construction, Space Utilization, Systems
                Approach, Vocational Schools

ABSTRACT

                As a service to architects and educators concerned
with the analysis or programing of educational facilities, 58
articles, books, monographes, and related items published between
1958 and 1970 are listed with accompanying key terms taken from the
Thesaurus of ERIC Descriptors. The reference or source of each item
is given, including procurement information for 15 documents
available through the ERIC system. A list of 22 additional items,
with source information but without key terms, is appended. Major
emphases of the documents listed include facilities for all
educational levels from elementary through college and vocational
schools, computer applications to facilities planning, use of the
critical path method for construction control, and the distinctive
features of following a systems approach in the programing of
facilities construction. (JK)

**CLEARINGHOUSE ON
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ANALYSIS & PROGRAMING

EDUCATIONAL FACILITIES

A Selected Bibliography
May 1970

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ANALYSIS & PROGRAMING EDUCATIONAL FACILITIES

ERIC CLEARINGHOUSE ON EDUCATIONAL FACILITIES

The University of Wisconsin

Madison, Wisconsin

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INTRODUCTION

The following is a Selected Reference List of source
publications of interest to architects and educators
contemplating the analysis or programing of educational
facilities. The listing has been prepared by the Edu-
cational Resources Information Center (ERIC) Clearinghouse
on Educational Facilities located at the University
of Wisconsin, Madison, Wisconsin, funded by the U. S.
Office of Education.

Each indexed reference source is followed by an alpha-
betical listing of descriptors which were selected to
describe the subject elements of each document. Major
descriptors are the most important descriptors assigned
to a given document and are identified by an asterisk.
The descriptors used throughout this bibliography are part
of the Thesaurus of ERIC Descriptors, which is used for
indexing, storing, and retrieving documents handled by
the ERIC system.

C O N T E N T S

ANALYSIS & PROGRAMING EDUCATIONAL FACILITIES

Alexander, Christopher. "Information and an Organized
     Process of Design," New Building Research, (Spring
     1961), 115-123.

     *Classification; *Communications; *Design; *Infor-
     mation Processing; *Information Seeking; Biblio-
     graphies; Design Needs; Methods; Models; Objectives;
     Personnel; Research

Alexander, Christopher. Notes on the Synthesis of Form.
     Cambridge, Mass.: Harvard Press, 1964. 216 pp.

     *Decision Making; *Design Needs; *Methodology;
     *Problem Solving; Design; Mathematics; Organization;
     Performance Factors; Physical Environment; Planning;
     Problem Sets

Alexander, Christopher; And Others. "Relational Complexes
     in Architecture," Architectural Record, 140 (Sept.
     1966), 185-190.

     *Decision Making; *Design; *Facility Requirements;
     *Problem Sets; *Relationship; Architectural Pro-
     graming; Interaction; Physical Design Needs; Psycho-
     logical Design Needs; Systems Analysis

Alexander, Christopher; Sara Ishikawa; and Murray Silver-
     stein. A Pattern Language Which Generates Multi-
     Service Centers. Berkeley, Calif.: Berkeley Graphic
     Arts, 1968. 238 pp.

     *Architecture; *Building Design; *Language; *Public
     Facilities; *Specifications; Organization; Physical
     Design Needs; Problem Solving

Alexander, Christopher. "The Theory and Invention of
     Form," Architectural Record, 137 (April 1965),
     177-186.

     *Architectural Programing; *Design; *Design Needs;
     *Methodology; *Theories; Architecture; Decision
     Making; Organization; Problem Sets; Systems Analysis;
     Systems Approach

Antill, James M.; and Ronald W. Woodhead. <u>Critical Path Methods in Construction Practice</u>. Sydney, Australia: University of New South Wales, 1965. 290 pp.

*Construction Costs; *Planning; *School Construc-
tion; *Systems Analysis; *Systems Approach; School
Planning

Bareither, Harlan D.; and Jerry L. Schillinger. <u>University Space Planning, Translating the Educational Program of a University into Physical Facility Requirements</u>. Urbana, Ill.: University of Illinois, 1968. 161 pp.

*Facility Inventory; *Higher Education; *Models;
*Research Methodology; *Space Utilization; Capital
Outlay; Educational Administration; Educational
Finance; Educational Planning; Physical Facilities

Bloomfield, Byron C.; and Howard E. Wakefield. <u>Basis for Design Development. Facilities Programming for a New Senior High School in the City of Green Bay</u>. Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, EF 002 510. 1968. 46 pp.

*Architectural Programing; *Design Needs; *Facility
Requirements; *School Planning; *Senior High Schools;
Co-curricular Activities; Curriculum; Decision
Making; Educational Objectives; Educational Philo-
sophy; Educational Specifications; Environmental
Influences; Facility Guidelines; Systems Analysis

Brewster, Sam F. <u>Programming, Planning, and Construction of College and University Buildings</u>. Richmond, Ind.: National Association of Physical Plant Administra-
tors, (c/o J. H. Sweitzer), Earlham College, 1963. 43 pp.

*Architectural Programming; *Campus Planning;
*College Buildings; *Higher Education; *Program
Planning; Data; Educational Specifications; Mainten-
ance; Speeches

Burke, John Emmett. <u>Planning the Functional College Library</u>. Commerce, Texas: John Emmett Burke, Director of Library Service, East Texas State College, 1961. 66 pp.

6

*Building Design; *College Libraries; *Library
Equipment; *Library Facilities; *Library Planning;
Architectural Elements; Campus Planning; College
Buildings; Design Preferences; Facility Guidelines

Campion, David. "Design Simulation by Computer," Archi-
tectural Review, 140 (Dec. 1966), 460-462.

*Architectural Programing; *Building Design; *Computer
Programs; *Computers; *Design Needs; Dining Facilities;
Facility Guidelines; Facility Requirements; Mathematic
Models

Clark, Stephen C.; And Others. Urban Education Systems
Analysis. Bethesda, Maryland: ERIC Document Repro-
duction Service, National Cash Register Company,
MF-$0.25, HC-$0.64, ED 013 528. 1967. 16 pp.

*Costs; *Decision Making; *Demography; *Systems Analysis;
*Urban Education; Estimated Costs; School Demography

Cogswell, Arthur R. "Programming and Computer-Based Cost
Analysis System," Building Research, (April/June 1969),
33-35.

*Computers; *Cost Effectiveness; *Performance Criteria;
*Programing; Architecture; Decision Making; Design;
Systems Approach

College and University Physical Plant Implementation,
Procedural Guidelines for Building Design and Con-
struction. Austin, Texas: Coordinating Board
Texas College and University System, Sam Houston
State Office Building, 1968. 93 pp.

*Architectural Programing; *Building Design; *Campus
Planning; *Construction (Process); *Guidelines;
Architects; Building Materials; Construction Costs;
Construction Programs; Critical Path Method; Organi-
zation; Site Analysis

Comprehensive Facilities Planning Program - 1968. Madison,
Wisconsin: Wisconsin Coordinating Council for Higher
Education, 732 North Midvale Boulevard, 1968. 11 pp.

*College Planning; *Construction Programs; *Federal
Programs; *Higher Education; *State Federal Support;
Educational Finance; Educational Planning; Facility
Expansion; Financial Support; School Construction

D'Amico, Louis A.; and William D. Brooks. The Spatial
Campus: A Planning Scheme with Selected and Annotated
Bibliography. Bloomington, Ind.: Indiana University
Bookstore, Indiana University, and/or Bethesda, Mary-
land: ERIC Document Reproduction Service, National
Cash Register Company, MF-$0.50, HC-$5.90, ED 031 881.
1968. 117 pp.

*Annotated Bibliographies; *Architectural Programing;
*Campus Planning; *Facility Expansion; *Periodicals;
Facility Inventory; Physical Design Needs; School
Community Relationship; Spatial Relationship; Traffic
Circulation; Urban Universities

Dombrow, Rodger T. and John Maughly. The Critical-Path
Method of Construction Control. Nashville, Tenn.:
National Council on Schoolhouse Construction, and/or
Bethesda, Maryland: ERIC Document Reproduction
Service, National Cash Register Company, MF-$0.25,
HC-$0.55, ED 017 124. 1963. 9 pp.

*Comparative Analysis; *Management; *Networks;
*Scheduling; *School Construction; Computers; Con-
struction Costs; Systems Analysis; Time

Earthman, Glen I. Study of Space Utilization. Philadelphia,
Penn.: Philadelphia School Districts, Pa., School
Planning Department, and/or Bethesda, Maryland:
ERIC Document Reproduction Service, National Cash
Register Company, MF-$0.25; HC-$1.75, ED 029 458.
1969. 33 pp.

*Class Size; *Facility Utilization Research; *Sched-
uling; *School Planning; *Space Utilization; Bib-
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ments; School Space; Time Blocks

Egbert, Robert L.; and John F. Cogswell. System Design in
the Bassett High School. Technical Memorandum Series.
Santa Monica, Calif: System Development Corporation,
2500 Colorado Ave., 1963. 23 pp.

*Educational Programs; *High Schools; *School Planning;
*Systems Analysis; Program Development; Program Planning

Egbert, Robert L.; and John F. Cogswell. System Design for
a Continuous Progress School: Part I. Technical
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Development Corporation, 2500 Colorado Ave., 1964.
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*Educational Programs; *High Schools; *School Planning;
*Systems Analysis; Program Development; Program Planning

Evans, Benjamin H. "Architectural Programing Practices,"
Building Research, (April/June 1969), 12-15.

*Architectural Programing; *Decision Making; *Design
Needs; *Problem Solving; *Program Design; Communication
(Thought Transfer); Data Analysis; Data Collection;
Evaluation; Objectives; Research

Evans, Benjamin H. Architectural Programming--State of the
Art. Washington, D.C.: American Institute of Archi-
tects, and/or Bethesda, Maryland: ERIC Document Repro-
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*Architecture; *Architectural Programing; *Building
Design; *Design Needs; *Systems Analysis; Building
Improvement; Communication Problems; Construction
Costs; Decision Making; Specialization

Evans, Benjamin H.; and C. Herbert Wheeler, Jr. Emerging
Techniques-2-Architectural Programing. Washington,
D.C.: The American Institute of Architects, 1969.
68 pp.

*Architecture; *Design; *Programing; *Techniques;
Bibliographies; Communications; Evaluation; Infor-
mation Seeking; Information Storage; Methods; Planning;
Problems; Testing

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Programing. Some Research Implications. Lynchburg,
Va.: Randolph-Macon Woman's College, Dept. of Sociology.
6 pp.

*Architectural Programing; *Building Design;
*Dormitories; *Research Needs; *Sociology; Decision
Making; Information Utilization; Role Theory

Guidelines to Planning Wisconsin's Public Post High School
    Education Program and the Supporting Building Program.
    Madison, Wisconsin: Wisconsin Coordinating Council
    for Higher Education, 732 North Midvale Boulevard,
    1966. 8 pp.

    *Construction Programs; *Educational Planning; *Higher
    Education; *Program Guides; *State Agencies; Educational
    Objectives; Facility Expansion; Guidelines; Program
    Planning

Haviland, David S. Components for School Construction in
    the Mid-Hudson Region. Progress Report 2. Troy,
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    for Architectural Research, and/or Bethesda, Maryland:
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    Register Company, MF-$0.75, HC-$5.80, ED 014 209.
    1965. 145 pp.

    *Construction Needs; *Design; *Planning; *School Con-
    struction; *Systems Analysis; Building Design; School
    Design; School Planning

Horowitz, Harold. The Program's the Thing. The New Archi-
    tect-Practice. Washington, D.C.: American Institute
    of Architects, 1967.

    *Behavioral Sciences; *Building Design; *Criteria;
    *Design Needs; *Programing; College Buildings; Con-
    trolled Environment; Flexible Facilities; Information
    Processing; Interviews, Master Plans; Role Theory;
    School Size; Site Analysis; Spatial Relationship

Hunt, William Dudley, Jr., Ed. Comprehensive Architectural
    Services--General Principles and Practice. New York:
    McGraw-Hill Book Company, 330 West 42nd Street,
    1965. 241 pp.

    *Architects; *Architecture; *Building Design; *Guide-
    lines; *Professional Services; Architectural Programing;
    Fees; Site Analysis; Systems Analysis

Johnsen, Erik. Studies in Multiobjective Decision Models.
    Lund, Sweden: Economic Research Center, 1968. 629 pp.

    *Decision Making; *Methods; *Models; *Organizations
    (Groups); Sociology; Systems Analysis; Systems Approach

Judy, Richard W.; and Jack B. Levine. A New Tool for Educa-
    tional Administrators. Educational Efficiency Through
    Simulation Analysis. Toronto, Canada: Committee on
    the Financing of Higher Education, 1965. 41 pp.

    *Computer Programs; *Higher Education; *Institutional
    Research; *Simulation; *Systems Analysis; Budgets;
    Enrollment Projections; Faculty Load; Space Require-
    ments

Liebeskind, Morris. "Design and Construction of School
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    Annual Meeting and Educational Exhibit, (50th, San
    Francisco, California, October 17-22, 1964). 1965.
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    *Building Design; *Computers; *Critical Path Method;
    *Programing; *School Construction; Information
    Processing; Models; Networks; Scheduling; Systems
    Analysis

Mason, Thomas R. The Impact of Academic Program Structure
    on Instructional Space Utilization. Bethesda, Mary-
    land: ERIC Document Reproduction Service, National
    Cash Register Company, MF-$0.25, HC-$0.80, ED 030 284.
    1969. 14 pp.

    *Facility Utilization Research; *Higher Education;
    *Research Methodology; *Space Utilization; *Scheduling;
    Campus Planning; Computer Science

Mattox, Robert F. Planning the Campus by Computer. Upper
    Montclair, New Jersey: Editor, 51 Upper Montclair
    Plaza, 1968.

    *College Planning; *Computer Programs; *Facility Guide-
    lines; *Scheduling; *Student Needs; Class Size; Cocurri-
    cular Activities; Decision Making; Display Systems;
    Enrollment Projections; Information Processing; Simulation

McIsaac, Donald N., Jr.; And Others. <u>A Time-Cost Manage-
ment System for Use in Educational Planning</u>. Madison,
Wisc.: University of Wisconsin, Department of Edu-
cational Administration, Information Systems, 415 W.
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*Critical Path Method; *Educational Planning; *Manage-
ment; *Sequential Approach; *Time; Educational Admin-
istration; Electronic Data Processing; Networks;
Program Costs; Public Schools; Scheduling; Statistical
Analysis

Meckley, Richard F.; Ivan E. Valentine; and Zane McCoy.
<u>A Guide to Systematic Planning for Vocational and
Technical Schools</u>. Columbus, Ohio: The Center for
Vocational and Technical Education, 1900 Kenny Road,
Ohio State University, 1968. 30 pp.

*Critical Path Method; *Management Systems; *Planning;
*Technical Institutes; *Vocational Schools; Biblio-
graphies; Graphs; Models; Systems Analysis; Systems
Approach; Techniques

Middlebrook, William T. <u>How to Estimate the Building Needs
of a College or University</u>. Minneapolis, Minn.: Uni-
versity of Minnesota Press, 1958. 169 pp.

*Architectural Programing; *Campus Planning; *Design
Needs; *Facility Guidelines; *Planning; College Housing;
Dining Facilities; Facility Requirements; School
Planning; Site Analysis; Space Utilization

Milne, Murray A. <u>Architectural Applications of Computer
Based Network Analysis Models</u>. New Haven, Conn.:
Murray Milne, Department of Architecture, Yale Uni-
versity, 1967. 15 pp.

*Building Design; *Computers; *Networks; *Objectives;
*System Analysis; Decision Making; Information Pro-
cessing; Models

Pena, William M.; and John W. Focke. <u>Problem Seeking.
New Directions in Architectural Programming</u>. Houston,
Texas: Caudill, Rowlett & Scott, Architects, CRS
Building, 1111 West Loop South, 1969. 44 pp.

*Architectural Programing; *Decision Making; *Methods;
*Techniques; Architects; Communications; Data Collec-
tion; Data Processing; Interdisciplinary Approach

Pena, William M. "Organizing for Programming." Building
Research, (April/June 1969), 8-11.

*Architectural Programing; *Design; *Methodology;
*Systems Approach; Bibliographies; Communication
(Thought Transfer); Evaluation; Graphs; Information
Seeking

Physical Facilities Survey and Utilization Study. Madison,
Wisc.: Coordinating Committee for Higher Education
in Wisconsin, 1961. 174 pp.

Pinnell, Charles; and Michael Wacholder. Guidelines for
Planning in Colleges and Universities. Volume 1,
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Texas College and University System, Sam Houston
State Office Building, and/or Bethesda, Maryland:
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Register Company, MF-$0.50, HC-$5.65, ED 024 119.
1968. 112 pp.

*College Planning; *Educational Objectives; *Facility
Guidelines; *Higher Education; *Master Plans; Ancillary
Services; Financial Needs; Land Use; Physical Facilities;
Program Budgeting; Program Planning; Traffic Circulation

Pinnell, Charles; and Michael Wacholder. Guidelines for
Planning in Colleges and Universities. Volume 2,
Management and Financial Planning. Austin, Texas:
Coordinating Board, Texas College and University
System, Sam Houston State Office Building, and/or
Bethesda, Maryland: ERIC Document Reproduction Service,
National Cash Regsiter Company, MF-$0.75, HC-$6.50,
ED 024 120. 1968. 128 pp.

*Educational Objectives; *Facility Guidelines; *Higher
Education; *Management; *Program Planning; College
Planning; Cocrdination; Financial Needs; Financial
Policy; Organization; Program Budgeting

Pinnell, Charles; and Michael Wacholder. <u>Guidelines for</u>
<u>Planning in Colleges and Universities. Volume 3,</u>
<u>Physical Plant Planning, Land Use, and Traffic.</u> Austin,
Texas: Coordinating Board, Texas College and University
System, Sam Houston State Office Building, and/or
Bethesda, Maryland: ERIC Document Reproduction Service,
National Cash Register Company, MF-$0.75, HC-$7.50,
ED 032 711. 1968. 148 pp.

*Campus Planning; *Higher Education; *Land Use; *Master
Plans; *Traffic Circulation; Design Needs; Facility
Inventory; Flexible Facilities; Pedestrian Traffic;
School Expansion; Transportation; Vehicular Traffic

Pinnell, Charles; and Michael Wacholder. <u>Guidelines for</u>
<u>Planning in Colleges and Universities. Volume 4,</u>
<u>Physical Plant Planning, Facilities Studies.</u> Austin,
Texas: Coordinating Board, Texas College and Uni-
versity System, Sam Houston State Office Building,
and/or Bethesda, Maryland: ERIC Document Reproduc-
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*Campus Planning; *Facility Inventory; *Facility Uti-
lization Research; *Higher Education; *Space Utiliza-
tion; College Housing; Facility Guidelines; Master
Plans; Scheduling; Space Classification

Pinnell, Charles; and Michael Wacholder. <u>Guidelines for</u>
<u>Planning in Colleges and Universities. Volume 5,</u>
<u>Physical Plant Planning, Utilities Studies.</u> Austin,
Texas: Coordinating Board, Texas College and Univer-
sity System, Sam Houston State Office Building,
and/or Bethesda, Maryland: ERIC Document Reproduction
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*Campus Planning; *Colleges; *Facility Guidelines;
*Universities; *Utilities; Bibliographies; Communi-
cations; Electrical Systems; Heating; Information
Storage; Kinetics; Plumbing; Sanitary Facilities;
Telephone Communication Systems

Richardson, Stephen. "The Value of a Program to the
Architect," <u>Building Research</u>, (April/June 1969),
40-42.

*Architectural Programing; *Design Needs; *Facility
Requirements; *Interdisciplinary Approach; *Problem
Solving; Design; Planning

School Building Research-Publication No. 1008. Washington,
D.C.; Building Research Institute, 1963. 200 pp.

*Architectural Research; *Campus Planning; *Design
Needs; Acoustical Environment; Building Materials;
Construction (Process); Elementary Schools; Second-
ary Schools; Windowless Classrooms

Seaton, Richard. "Research for Building Programming,"
Building Research, (April/June 1969), 36-39.

*Architectural Programing; *Design Needs; *Objec-
tives; *Research; *Systems Approach; Data Collection;
Methods; Standards

Staff Report on Proposed Guidelines for Research Facilities.
Madison, Wisc.: Wisconsin Coordinating Council for
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5 pp.

*College Planning; *Construction Programs; *Facility
Expansion; *Facility Guidelines; *Higher Education;
Educational Specifications; Facility Requirements

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*Critical Path Method; *Networks; *Program Evaluation;
*Scheduling; Computers; Decision Making; Methods;
Sequential Approach; Simulation

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Company, MF-$0.25, HC-$2.40, ED 035 267. 1970. 46 pp.

*Bibliographies; *Decision Making; *Problem Solving;
*School Design; *Systems Approach; Architectural
Programing; Architecture; Building Design; Campus
Planning; City Planning; Design; Methods; Models; Plan-
ning; Systems Engineering

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     *Budgeting; *Capital Outlay; *Educational Finance;
     *Higher Education; *Systems Approach; Bibliographies;
     Cooperative Planning; Resource Allocations; Systems
     Development; Team Administration

Tyrrel, Philip H. Programming the Unknown--Guidelines for
     the Conduct of Institutional Research. Madison, Wisc.:
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     ment; *Program Evaluation; *Programing; Guidelines

User Requirements, April 1969. Bethesda, Maryland: ERIC
     Document Reproduction Service, National Cash Register
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     *College Housing; *Design Needs; *Dormitories; *Student
     Needs; Bibliographies; Building Design; Building Plans;
     Component Building Systems; Housing Industry; Housing
     Needs; Physical Environment; Research

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     16 pp.

     *College Planning; *Facility Inventory; *Facility
     Utilization Research; *Institutional Research;
     *Scheduling; Classification; Data Collection; Surveys

Vickrey, Wilmont. An Architect Looks at Planning. Los
     Angeles, Calif.: Calif. School Facilities Council,
     Chancellor's Planning Office, Administration Building,
     University of Calif., 1966. 5 pp.

     *Architectural Character; *Architectural Programing;
     *Building Design; *Campus Planning; *College Buildings;
     Architectural Elements; Architecture; Construction
     Programs; Facility Expansion; Planning

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    and Scheduling Variables. Boston, Mass.:   Arthur
    D. Little, Inc.   35 pp.

    *College Planning; *Educational Programs; *Junior
    Colleges; *Scheduling; *Simulation; Educational
    Planning; Guidelines; Post Secondary Education

Zimmerman, Mary Ann.   Estimation of Parking Demand at a
    University Campus Serving Commuting Students.
    LaFayette, Ind.:   Mary Ann Zimmerman, Dept. of Civil
    Engineering, Purdue University, 1968.   71 pp.

    *Campus Planning; *Commuting Students; *Parking
    Areas; *Space Utilization; Bibliographies; Parking Controls;
    Student Transportation; Traffic Circulation

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