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A selected reference list is presented of 94 source publications of interest to architects contemplating employing systematic methods in the execution of professional services involving planning, programming, and design. The publication is divided into four major topical areas—(1) architectural design, (2) design (general), (3) decision making, and (4) planning. Each citation is followed by a listing of descriptors which are selected to describe the subject elements of each document. (TC)
SYSTEMATIC METHODS
IN
SCHOOL PLANNING, PROGRAMING, AND DESIGN

A Selected Bibliography
January 1970
INTRODUCTION

The following is a Selected Reference List of source publications of interest to architects contemplating employing systematic methods in the execution of professional services involving planning, programing, and design. The listing has been prepared by the Educational 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 citation identified is followed by an alphabetical 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.
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SYSTEMATIC METHODS
OF
ARCHITECTURAL DESIGN

(Architectural Programing; Architecture; Building Design; Decision Making; Design; Design Needs; Methods; Programing; School Design; Systems Approach)

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


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


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


*Architecture; *Design; *Methods; *Planning; *Systems Approach; Evaluation; Evolutionary Techniques; Feedback; Sequential Approach


*Building Design; *Computers; *Data Processing; *Information Processing;


*Architectural Education; *Architecture; 
*Design; *Methods; *Systems Approach; 
Architectural Programing; Problem Solving; Systems Analysis; Teaching Techniques


*Building Design; *Computer Programs; 
*Computers; Air Conditioning; Architecture; Construction Costs; Problem Solving; Structural Building Systems

Evans, Benjamin H. "Architectural Programing Practices," Building Research 

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


*Architectural Programing; *Architecture; *Building Design; *Design Needs; *Systems Analysis; Building Improvement; Communication Problems; Construction Costs; Decision Making; Specialization


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

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


*Architecture; *Decision Making; *Design; *Research; Bibliographies; Evaluation; Factor Analysis; Objectives; Problems

Haviland, David S. *The Activity/Space, A Least Common Denominator for Architectural Programming.* Washington, D. C.:
American Institute of Architects,  

*Architectural Programing; *Communication Problems; *Information Processing; *Needs; *Programing Problems; Activities; Computer Programs; Criteria; Documentation; Space Utilization


*Architectural Education; *Building Design; *Computers; *Graphic Arts; *Information Processing; City Planning; Communications; Construction Costs; Engineering; Office Management; Programing; School Site; Technology

Krauss, Richard. **Design: A Case History.**


struction; Information Processing; Models; Networks; Scheduling; Systems Analysis


*Building Design; *Computers; *Networks; *Objectives; *Systems Analysis; Decision Making; Information Processing; Models


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


Van der Ryn, Sim, and Murray Silverstein. 


*Dormitories; *Environmental Research; *Furniture Arrangement; *Physical Design Needs; *Psychological Design Needs
SYSTEMATIC METHODS
OF
DESIGN - (GENERAL)

(Decision Making; Design; Design Needs; Evaluation; Human Engineering; Methodology; Methods; Systems Engineering)

*Classification; *Communications; *Design; *Information Processing; *Information Seeking; Bibliographies; Design Needs; Methods; Models; Objectives; Personnel; Research


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


*Design; *Design Needs; *Logic; *Methods; Decision Making; Management Development;
Operations Research; Problem Solving; Skills; Vocabulary


*Decision Making; *Design; *Human Engineering; *Systems Concepts; Evaluation; Objectives; Scientific Methodology; Systems Analysis; Systems Approach


*Decision Making; *Design; *Human Engineering; *Systems Approach; Check Lists; Evaluation; Methods; Operations Research; Physical Design Needs; Tests


*Decision Making; *Design; *Methodology; *Problem Solving; Architectural Education; City Planning; Communication (Thought Transfer); Computers; Concept Formation; Conferences; Creative Thinking; Systems Approach; Systems Concept
SYSTEMATIC METHODS
OF
DECISION MAKING

(Cybernetics; Decision Making; Evaluation; Methods; Models; Operations Research; Problem Solving; Systems Analysis; Systems Approach; Theories)

*Decision Making; *Evaluation; *Research; *Techniques; Data; Information; Methods; Prediction; Values


*Bibliographies; *Decision Making; *Operations Research; *Theories; Information Seeking; Models; Organization


*Decision Making; *Models; *Planning; *Research; Design; Mathematics; Methods; Objectives; Techniques

*Decision Making; *Management; *Methods; *Performance Factors; *Planning; Administrative Policy; Critical Path Method; Problems; Projects; Scheduling; Small Group Instruction; Teamwork


*Decision Making; *Design; *Forced Choice Technique; *Rating Scales; Bibliographies; Evaluation; Methods; Physical Design Needs

Bross, Irwin D. J. *Design for Decision.*

*Decision Making; Economics; Methods; Prediction; Problem Solving; Cost Effectiveness; Game Theory; Information Theory; Logic; Mathematics; Scientific Methodology*


*Decision Making; Evaluation; Objectives; Operations Research; Problem Solving; Methods; Problems*

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


*Decision Making; *Goal Orientation; *Organization; *Personality Assessments; *Systems Approach; Check Lists; Indexing; Objectives; Personal Values


*Decision Making; *Economics; *Mathematics; *Psychology; *Statistical Analysis; Bibliographies; Game Theory; Risk; Theories


Operations Research Group, Case Institute of Technology, Cleveland, Ohio. A Comprehensive
Bibliography on Operations Research.

*Bibliographies; *Decision Making; *Operations Research; *Problem Solving; Mathematics; Methods; Organizations; Techniques


*Decision Making; *Leadership; *Planning; *Theories; Management; Problem Solving; Systems Analysis


*Experience; *Mathematical Models; *Mathematics; *Problem Solving; Design; Methods; Specifications

*Cost Effectiveness; *Decision Making; *Management; *Planning; Business; Methodology; Rating Scales; Statistical Analysis


*Bibliographies; *Management; *Planning; *Systems Analysis; Data Processing; Design; Evaluation Methods; Information Processing; Research; Training


*Administration; *Decision Making; *Mathematical Models; *Methodology;

Bibliographies; Communication; Cybernetics; Information Theory; Theories; Biophysics; Decision Making; Mathematics; Sensory Experience


Bibliographies; Communication; Cybernetics; Information Theory; Theories; Biophysics; Decision Making; Mathematics; Sensory Experience
Systems Management Planning. Vol. XVI.

*Bibliographies; *Decision Making;
*Management; *Operations Research;
*Systems Analysis; Computer Programming;
Critical Path Method; Game Theory;
Mathematical Models; Scheduling

Systems-Operational Planning. Vol. XII.

*Bibliographies; *Factor Analysis;
*Operations Research; *Systems Analysis;
Game Theory; Mathematical Models;
Planning; Simulation

Systems-Planning Requirement. Vol. XIII.

*Bibliographies; *Decision Making;
*Operations Research; *Systems Approach;
Management; Planning
Uses and Limitations of Systems Analysis.

*Decision Making; *Management; *Systems Analysis; *Systems Approach; Business; Computer Programs; Prediction; Theories


*Bibliographies; *Decision Making; *Mathematics; *Psychological Characteristics; Communications; Information Processing; Information Seeking; Leadership


*Communications; *Cybernetics; *Information Organization; *Methods; Biology; Concept Formation; Feedback; Mathematics; Models; Prediction; Quantum Mechanics
SYSTEMATIC METHODS
OF
PLANNING

(Campus Planning; City Planning; College Planning; Community Planning; Decision Making; Educational Planning; Master Plans; Planning; Prediction; Site Analysis; Space Utilization; Systems Analysis)

*City Planning; *Community Planning; *Land Use; *Set Theory; Architecture; City Demography; City Problems; Physical Environment; Visualization.


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


*Decision Making; *Planning; *Prediction; *Problem Solving; *Scientific Methodology; Bibliographies; City Planning; Game Theory; Operations Research; Risk


*Campus Planning; *Junior Colleges; *Site Analysis; *Site Development; Architectural Programing; Educational Complexes; Facility Expansion; Master Plans; Site Selection; Vehicular Traffic

*Administration; *Construction (Process); *Planning; *Scheduling; *Systems Analysis; Critical Path Method; Design; Methods; Techniques


*Budgeting; *Government (Administrative Body); *Planning; *Programming; *Systems Approach; Cost Effectiveness; Decision Making; Problem Solving; Program Planning


*Planning; *Systems Analysis; *Systems Approach; *Systems Concept; *Theories; Bibliographies; Methods

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Judy, Richard W. *Simulation and Rational Resource Allocation in Universities.*

*Educational Planning; *Resource Allocations; *Systems Analysis; *Techniques; *Universities; Cost Effectiveness; Decision Making; Development; Management; Models; Program Budgeting; Programs; Systems Approach; Testing


*City Planning; *Cost Effectiveness; *Decision Making; *Evaluation Methods; Guidelines; Land Use; Methods; Objectives; Prediction


Pima County Junior College. Houston, Texas: Caudill, Rowlett and Scott.
Facility Guidelines; Methodology; Space Utilization

Pinell, Charles, Dr., and Michael H. Wacholder. Guidelines for Planning in Colleges and Universities. College Station, Texas: Texas A & M University, 1968.

*Architecture; *Facility Inventory; *Land Use; *Planning; *Program Design; Higher Education; Management; Objectives; Schools; Systems Approach


*Campus Planning; *Planning; *School Building Design; *Schools; Climate Control; Design Needs; Evaluation; Facilities Requirements; Management


Un-numbered volumes are available from

*City Planning; *Systems Analysis; *Systems Approach; *Systems Concept; *Urban Areas; Community Surveys; Housing Deficiencies; Pollution; Research; Traffic Patterns; Urban Renewal
Systems Approach to Higher Education - A
Comprehensive Report of Progress,
Interim Report No. 3. NSF Project
C-396. East Lansing, Mich.: Division
of Engineering Research, Michigan
State University.

Witmer, David R. "The Computer as a Manage-
ment Tool - Physical Facilities Inven-
tories, Utilization, and Projections,"
Proceedings, Annual Machine Records
Conference, (11th, University of Tennes-
see, Knoxville, April 25-27, 1966).

*College Planning; *Computers; *Enroll-
ment Projections; *Facility Inventory;
*Space Utilization; Classrooms; Deci-
sion Making; Growth Patterns; Manage-
ment; Physical Facilities; Resource
Allocations
ADDITIONAL BIBLIOGRAPHIES

OF

SOURCE REFERENCES
Ehler, Charles N. *Environmental Impacts of New Technology Annotated Bibliography.*
Ann Arbor, Mich.: Architectural Research Laboratory, University of Michigan.
8-1/2 x 11. $5.00. 168 pp.

Members: $2.00; Others: $5.00.