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AD-722 870

MANAGEMENT ENGINEERING

A DDC BIBLIOGRAPHY

January 1970 - October 1970

DDC-TAS-71-5

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April 1971

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UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author) DEFENSE DOCUMENTATION CENTER Cameron Station Alexandria, Virginia 22314	2a. REPORT SECURITY CLASSIFICATION Unclassified 2b. GROUP

3. REPORT TITLE

MANAGEMENT ENGINEERING

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Bibliography (January 1970 - October 1970)

5. AUTHOR(S) (First name, middle initial, last name)

6. REPORT DATE April 1971	7a. TOTAL NO. OF PAGES 201	7b. NO. OF REFS 161
8a. CONTRACT OR GRANT NO. b. PROJECT NO. c. d.	9a. ORIGINATOR'S REPORT NUMBER(S) DDC-TAS-71-5 9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) AD-722 870	

10. DISTRIBUTION STATEMENT

Approved for public release; distribution unlimited.

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY

13. ABSTRACT

The abstracts to reports in this bibliography are pertinent to management planning in transportation, industries, civil defense systems, and other man-organized systems.

The indexes are Corporate Author-Monitoring Agency, and Subject.

DD FORM 1 NOV 65 1473

UNCLASSIFIED

Security Classification

UNCLASSIFIED

Security Classification

14 KEY WORDS	LINK A ROLE	LINK A WT	LINK B ROLE	LINK B WT	LINK C ROLE	LINK C WT
*Management Engineering						
*Management Planning						
*Bibliographies						
Civil Defense Systems						
Data Processing Systems						
Decision Making						
Fallout Shelters						
Industries						
Inventory Control						
Mathematical Prediction						
Management Control Systems						
Management Information System						
Research Program Administration						
Statistical Analysis						
Systems Engineering						
Urban Planning						
Transportation						
Logistics						

UNCLASSIFIED

Security Classification

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MANAGEMENT ENGINEERING

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Cameron Station
Alexandria, Virginia 22314

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F O R E W O R D

This bibliography consists of 161 references pertinent to management planning in transportation, industries, civil defense systems, and other man-organized systems. The bibliography covers references to abstracts in the Defense Documentation Center's computer data bank for 1970.

The indexes are Corporate Author-Monitoring Agency, and Subject.

BY ORDER OF THE DIRECTOR, DEFENSE SUPPLY AGENCY

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Administrator
Defense Documentation Center

The following is a selective list of titles of bibliographies related to this topic. Additional titles of other *scheduled bibs* also appear on the back cover.

For more information on Scheduled Bibliographies, call 202-OX4-7207 or write to the Defense Documentation Center, ATTN: DDC-TAS.

- CIVIL DEFENSE SYSTEMS:
  SOCIAL IMPACT AND MANAGEMENT PLANNING
- CONFIGURATION MANAGEMENT
- COST EFFECTIVENESS ANALYSIS
- IMPACT OF REDUCED DEFENSE EXPENDITURES
- MANAGEMENT INFORMATION SYSTEMS
- URBAN ECONOMICS AND PLANNING

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 72AMKA

AD-700 173 5/1
RAND CORP SANTA MONICA CALIF
PROLEGOMENA TO POLICY SCIENCES. (U)
JAN 70 36P DROR,YEHEZKEL ;
REPT. NO. P-4283

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTLY PARTLY AT THE ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (136TH), BOSTON, MASS., 26-31 DEC 69 AND THE ANNUAL MEETING OF THE AMERICAN POLITICAL SCIENCE ASSOCIATION (65TH), NEW YORK, 2-6 SEP 69.

DESCRIPTORS: (*MANAGEMENT PLANNING, PHILOSOPHY), (*DECISION MAKING, THEORY), OPERATIONS RESEARCH, SYSTEMS ENGINEERING, FACTOR ANALYSIS, SOCIAL PSYCHOLOGY, MATHEMATICAL PREDICTION (U)
IDENTIFIERS: *POLICY SCIENCES, SYSTEMS ANALYSIS (U)

THE DOCUMENT DISCUSSES THE VALUE OF POLICY SCIENCES IN RELATION TO OPERATIONS RESEARCH, SYSTEMS ANALYSIS, STRATEGY, AND OPERATIONAL CONCEPTS AND LIMITATIONS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 72AMK6

AD-700 319 5/3 5/1
RAND CORP SANTA MONICA CALIF
PRICES AND THE GUIDEPOSTS: THE EFFECTS OF
GOVERNMENT PERSUASION ON INDIVIDUAL PRICES. (U)
JAN 70 32P ALEXANDER,ARTHUR J. ;
REPT. NO. P-4284

UNCLASSIFIED REPORT

DESCRIPTORS: (*ECONOMICS, MANAGEMENT PLANNING),
(*COSTS, DECISION MAKING), (*WAGES,
CONTROL), UNITED STATES GOVERNMENT,
INDUSTRIAL RELATIONS, IMPACT, STATISTICAL DATA,
REGRESSION ANALYSIS (U)
IDENTIFIERS: CONFRONTATIONS, PRICE CONTROL, WAGE
CONTROL, GOVERNMENT POLICIES (U)

WAGE-PRICE GUIDEPOSTS WERE PART OF THE GOVERNMENT'S
ECONOMIC POLICY FROM 1962 TO 1968. A PARTICULAR
METHOD OF POLICING THE GUIDEPOSTS EVOLVED DURING THIS
PERIOD. THE ADMINISTRATION SOUGHT, THROUGH
PUBLIC AND PRIVATE CONFRONTATIONS, TO INFLUENCE THE
PRICING DECISIONS OF FIRMS. THE DOCUMENT DESCRIBES
BRIEFLY THE POLICY OF CONFRONTATION, PROPOSES SEVERAL
ALTERNATIVE HYPOTHESES TO EXPLAIN THE RESULTANT
BEHAVIOR OF FIRMS, AND ANALYZES STATISTICALLY THOSE
VARIABLES PREDICTED TO BE ASSOCIATED WITH GOVERNMENT
SUCCESS AND FAILURE IN INFLUENCING FIRM BEHAVIOR.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-700 510 5/1 5/3
RAND CORP SANTA MONICA CALIF
TOP MANAGEMENT IN EGYPT: ITS STRUCTURE, QUALITY, AND PROBLEMS. (U)
JAN 70 68P FARID,SALEH ;
REPT. NO. P-4291

UNCLASSIFIED REPORT
AVAILABILITY: PAPER COPY AVAILABLE FROM RAND CORP., SANTA MONICA, CALIF. $2.00.

DESCRIPTORS: (*ECONOMICS, *EGYPT), (*MANAGEMENT PLANNING, EFFECTIVENESS), LEADERSHIP, POLITICAL SCIENCE, PUBLIC RELATIONS, FOREIGN POLICY, ORGANIZATIONS, PROBLEM SOLVING, QUALITY CONTROL (U)
IDENTIFIERS: SOCIALISM (U)

THE PAPER IS CONCERNED WITH THE STUDY OF TOP-LEVEL MANAGEMENT IN EGYPT -- DIRECTORS OF STATE ENTERPRISES -- INDIVIDUALS WHO ARE PLAYING THE PRIME ROLE IN EGYPT'S ECONOMIC DEVELOPMENT. AN ATTEMPT IS MADE TO SHED LIGHT ON THE EFFECTIVENESS OF TOP MANAGEMENT AS IT EXISTS TODAY BY INVESTIGATING ITS QUALITY, ITS MOTIVATION, AND ITS BUSINESS ENVIRONMENT. IN ADDITION, PROBLEMS WHICH MAY HINDER THE EFFECTIVENESS OF TOP MANAGEMENT ARE ANALYZED AND POSSIBLE SOLUTIONS ARE RECOMMENDED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-700 986 15/5
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
OPERATIONS ANALYSIS OFFICE
PROJECT ABLE APPLIED TO AIRCRAFT ENGINE DEVELOPMENT
AND PROCUREMENT. (U)
DESCRIPTIVE NOTE: OPERATIONS ANALYSIS REPT.,
JAN 70 56P LAVENDER,RAYMOND E. ;
REPT. NO. OAR-8-SUPPL .

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT TO REPORT DATED MAY 69.
AD-690 520.

DESCRIPTORS: (*AIR FORCE PROCUREMENT, *MANAGEMENT
ENGINEERING), (*AIRCRAFT ENGINES, LOGISTICS),
DECISION MAKING, CONTRACTS, COSTS, MATHEMATICAL
MODELS, INVENTORY, INSTRUCTION MANUALS (U)
IDENTIFIERS: LOGISTICS MANAGEMENT,
ABLE(ACQUISITION BASED ON CONSIDERATION OF
LOGISTIC EFFECTS), ACQUISITION BASED ON
CONSIDERATION OF LOGISTIC EFFECTS (U)

THE PAPER ADAPTS THE GENERAL METHODOLOGY OF PROJECT
ABLE TO THE SPECIFIC SITUATION OF AIRCRAFT ENGINE
DEVELOPMENT AND PROCUREMENT. BY THIS METHOD, A
MEASUREMENT TOOL FOR USE IN TRADEOFF DECISIONS IS
PROVIDED, ALONG WITH A CONTRACTUAL STRUCTURE TO
ASSURE THE USE OF THIS TOOL. THE UNDERLYING
CONCEPT IS THAT ALL THE CONSEQUENCES OF DECISIONS
SHOULD BE MEASURED, TO THE EXTENT PRACTICABLE, AND BE
THE BASIS OF EACH DECISION. ALL THE COST
CATEGORIES CONSIDERED IN THE ORIGINAL ABLE PAPER
ARE USED, ALONG WITH TWO NEW CATEGORIES.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-701 045 5/1
RAND CORP SANTA MONICA CALIF
THREE VIEWS OF THE EXPERT'S ROLE IN POLICY-MAKING: SYSTEMS ANALYSIS, INCREMENTALISM AND THE CLINICAL APPROACH, (U)
JAN 70 26P ARCHIBALD,K. A. ;
REPT. NO. P-4292

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, DECISION MAKING), (*ORGANIZATIONS, EFFECTIVENESS), PROFESSIONAL PERSONNEL, FACTOR ANALYSIS, SYSTEMS ENGINEERING, PROBLEM SOLVING, COST EFFECTIVENESS (U)
IDENTIFIERS: POLICYMAKING, PROGRAM BUDGETING, SYSTEMS ANALYSIS (U)

THE MAIN PURPOSE OF THE PAPER IS TO COMPARE THE SYSTEMS ANALYTIC APPROACH AND THE CLINICAL APPROACH TO POLICY MAKING AND THUS SUGGEST WHY SOME SORT OF INTERACTION BETWEEN THEM COULD BE FRUITFUL. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-701 172 15/5 9/2
ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA
COMPUTING EXPECTED VALUES OF CUSTOMER REQUESTS
BACKORDERED. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
FEB 70 11P KAPLAN,ALAN J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY PROCUREMENT, MATHEMATICAL
PREDICTION), (*INVENTORY CONTROL, MANAGEMENT
PLANNING), STATISTICAL PROCESSES, PROBLEM SOLVING,
COSTS, PROBABILITY, FACTOR ANALYSIS, TIME,
DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: BACKORDERING,
ORDERS(COMMITMENTS), STOCKOUT COSTS (U)

THE DOCUMENT CONSIDERS THE STOCKOUT COST FOR AN
INVENTORY MANAGER AS A FUNCTION OF THE NUMBER OF
CUSTOMER REQUESTS BACKORDERED, EACH REQUEST POSSIBLY
BEING FOR SEVERAL UNITS OF STOCK. THE PROBLEM
ARISES OF COMPUTING THE EXPECTED STOCKOUT COST IN
TERMS OF REQUESTS, WHEN TECHNIQUES ARE AVAILABLE FOR
COMPUTING IT IN UNITS. A SIMPLE CONVERSION FACTOR
IS DESIRABLE. BASED ON A FORMAL ANALYSIS, THE
CONVERSION FACTOR 1/E(X) IS RECOMMENDED WHERE
E(X) IS AVERAGE SIZE OF A CUSTOMER REQUEST.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-701 187 5/2 5/1 14/1
RAND CORP SANTA MONICA CALIF
LIBRARIES AND THE OTHER TRIANGLE UNDER THE DEMAND CURVE. (U)
JAN 70 11P NEWHOUSE,JOSEPH P. ;
REPT. NO. P-4286

UNCLASSIFIED REPORT

DESCRIPTORS: (*LIBRARIES, *MANAGEMENT PLANNING), (*INVENTORY, PROCUREMENT), COST EFFECTIVENESS, INVENTORY ANALYSIS, COSTS, DOCUMENTATION (U)
IDENTIFIERS: *BOOKS, BENEFIT COST ANALYSIS (U)

A SIMPLE THEORY OF LIBRARY SERVICES IS PRESENTED. THE THEORY WAS DEVELOPED AS A NORMATIVE TOOL TO AID LIBRARIES IN ANSWERING THE QUESTION: WHICH BOOKS SHOULD BE BOUGHT BY THE LIBRARY. ALTHOUGH DEVELOPED FOR NORMATIVE PURPOSES, THE THEORY GENERATES TESTABLE PREDICTIONS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKS

AD-701 303 5/9 5/1
LITTON SYSTEMS INC MONTEREY CALIF MELLONICS SYSTEMS DEVELOPMENT DIV
APPLICATION AND DEMONSTRATION OF NAS SAUFLEY MANPOWER ALLOCATION AND PRODUCTIVITY MEASUREMENT MODEL. (U)
DESCRIPTIVE NOTE: FINAL REPT.
JAN 70 56P
CONTRACT: N00022-67-C-0100
MONITOR: NAVPERS-PRD PRR-70-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL SHORE ESTABLISHMENTS, NAVAL AVIATION), (*NAVAL AVIATION, MANPOWER STUDIES), (*PILOTS, *NAVAL TRAINING), MATHEMATICAL MODELS, MANAGEMENT PLANNING, BUDGETS, JOB ANALYSIS, PERSONNEL MANAGEMENT, PROBLEM SOLVING, COSTS (U)
IDENTIFIERS: SAUFLEY NAVAL AIR STATION, MANPOWER ALLOCATION MODELS, *MANAGEMENT INFORMATION SYSTEMS, PRODUCTIVITY MEASUREMENT MODELS (U)

THE STUDY INVOLVES THE APPLICATION OF THE MANPOWER ALLOCATION MODEL (MAM) AND THE PRODUCTIVITY MEASUREMENT MODEL (PMM) FOR NAVAL AIR STATION SAUFLEY IN ADDRESSING SIX TYPICAL NAVY MANAGEMENT QUESTIONS. IT WAS THE FIRST OPPORTUNITY TO DEMONSTRATE SOME OF THE MODEL CAPABILITIES IN ADDRESSING MANPOWER MANAGEMENT QUESTIONS WHICH MAY TYPICALLY DEVELOP IN THE DEPARTMENT OF DEFENSE PLANNING PROGRAMMING AND BUDGETING SYSTEM (PPBS) DIALOGUE. THE DEMONSTRATION INDICATED THAT THE MODELS ARE CAPABLE OF BEING USED IN RESPONDING TO EACH OF THE SIX PROPOSED MANAGEMENT QUESTIONS. RECOMMENDATIONS WERE FORMULATED CONCERNING INPUT DATA REQUIREMENTS, MODEL OUTPUT, STRUCTURE AND VALIDITY ANALYSIS WHICH WOULD IMPROVE THE USEFULNESS OF THE MODELS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-701 384 14/5
AERONAUTICAL CHART AND INFORMATION CENTER ST LOUIS MO
COPY THROUGH PRINTING REGISTRATION SYSTEM (FOR THE
LITHOGRAPHIC PROCESS). (U)
JAN 70 31P STOESSEL,OTTO C. ;
REPT. NO. ACIC-TECHNICAL PAPER-23

UNCLASSIFIED REPORT

DESCRIPTORS: (*LITHOGRAPHY, QUALITY CONTROL),
PRODUCTION CONTROL, MATERIALS, COSTS,
PERFORMANCE(HUMAN), IDENTIFICATION, MANAGEMENT
PLANNING, PUNCHED CARDS (U)
IDENTIFIERS: LITHOGRAPHIC REGISTRATION SYSTEMS,
MULTICOLOR PRINTING, CENTER MARKS (U)

THE PAPER DEFINES THE MANAGEMENT AND TECHNICAL
OBJECTIVES ESTABLISHED FOR A SYSTEM WHICH WILL
ACCURATELY MATCH (REGISTER) THE VARIOUS MATERIALS
CREATED FOR PRODUCTION OF A MULTI-COLOR LITHOGRAPHED
PRODUCT. IT DESCRIBES THE PUNCHED HOLE AND PIN
DESIGN CONCEPT WHICH IS THE KEY TO THE REGISTRATION
SYSTEM. THE REGISTRATION SYSTEM DESCRIBED BEGINS
WITH PREPARATION OF THE ORIGINAL COPY AND PROCEEDS
THROUGH THE REPRODUCTION NEGATIVE, LITHO PLATE, AND
LITHO PRESS OPERATIONS TO THE FINISHED LITHOGRAPHIC
PRODUCT ON WHICH A CALIBRATED SCALE PRINTED ON EACH
SHEET PERMITS DIRECT READ OUT OF THE DEGREE OF
REGISTRATION QUALITY OBTAINED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 72AMKB

AD-701 589 5/9 5/10
PERFORMANCE RESEARCH INC WASHINGTON D C
THE USE OF REWARDS IN MOTIVATING MARGINAL MEMBERS OF THE WORK FORCE. (U)
FEB 70 24P PORTER,LYMAN W. ;
REPT. NO. PRI-364-2.1
CONTRACT: N00014-66-C-0130
PROJ: NR-152-241

UNCLASSIFIED REPORT

DESCRIPTORS: (*INDUSTRIAL PSYCHOLOGY, MANAGEMENT PLANNING), (*MOTIVATION, EFFECTIVENESS), FEASIBILITY STUDIES, PERFORMANCE(HUMAN), APPLIED PSYCHOLOGY, SOCIAL PSYCHOLOGY, SOCIAL COMMUNICATION, REACTION(PSYCHOLOGY), MANPOWER STUDIES (U)
IDENTIFIERS: MARGINAL PERSONNEL, DISADVANTAGED GROUPS, REWARDS (U)

THE PAPER DEALS WITH THE USE OF FOUR GROUPS OF REWARDS (FINANCIAL, INTERPERSONAL, INTRINSIC TO WORK AND DEVELOPMENTAL) FOR MOTIVATING INDIVIDUALS WHO HAVE FAILED TO DEMONSTRATE CONSISTENT WORK ATTENDANCE OR TO MEET ORGANIZATIONALLY DEFINED STANDARDS OF ADEQUATE PERFORMANCE. THE PAPER EMPHASIZES THE IMPORTANCE OF CONSIDERING THE SOURCES OF REWARDS AND THEIR METHOD OF ADMINISTRATION, AND CONSIDERS THE EFFECTS OF THESE FACTORS ON ATTENDANCE AND PERFORMANCE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-701 881 5/1 12/2 1/2
WISCONSIN UNIV MADISON DEPT OF STATISTICS
ANALYSIS OF TELEPHONE DATA: A CASE STUDY OF
FORECASTING SEASONAL TIME SERIES. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
JAN 70 53P TIAO,G. C. ;THOMPSON,H.
E. ;
REPT. NO. UNIS-DS-70-222
CONTRACT: DA-ARO(D)-31-124-G917, NSF-GP-6519

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON JOINT BUSINESS-
STATISTICS RESEARCH PAPER SERIES NO. 1.

DESCRIPTORS: (*TELEPHONE EQUIPMENT, MANAGEMENT
PLANNING), (*TIME SERIES ANALYSIS, MATHEMATICAL
PREDICTION), CORRELATION TECHNIQUES, DECISION
MAKING (U)

FORECASTING MODELS ARE CONSTRUCTED FOR THE MONTHLY
INWARD AND OUTWARD STATION MOVEMENTS OF THE
WISCONSIN TELEPHONE COMPANY USING AN ITERATIVE
PROCEDURE DEVELOPED BY BOX AND JENKINS. DATA
COVERING THE PERIOD JANUARY 1951 THROUGH OCTOBER
1966 WERE USED TO DEVELOP THE MODEL. FORECASTS WITH
95% PROBABILITY LIMITS WERE CALCULATED FOR THREE
YEARS FROM NOVEMBER 1966 AND COMPARED WITH THE
ACTUAL OBSERVATIONS. THE PROPERTIES OF THE MODELS
ARE DISCUSSED IN DETAIL. ALTERNATIVE MODELS FOR
FORECASTING ARE ALSO ENTERTAINED AND COMPARED WITH
THOSE CHOSEN. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-701 890 15/5 5/1
ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA
OPTIMAL MULTI-ECHELON STOCKAGE POLICIES WITH
CONSTRAINTS. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
FEB 70 52P KRUSE,W. KARL ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*FORK-LIFT VEHICLES, LOGISTICS),
(*SPARE PARTS, STOCK LEVEL CONTROL), ARMY
EQUIPMENT, MANAGEMENT ENGINEERING, MATHEMATICAL
MODELS, INVENTORY CONTROL, QUEUEING THEORY, COST
EFFECTIVENESS, NUMERICAL ANALYSIS (U)
IDENTIFIERS: LOGISTICS MANAGEMENT, CONSTRAINTS,
POLICYMAKING, MULTIECHELON SYSTEMS,
BACKORDERING (U)

A MULTI-ECHELON MODEL IS USED TO DEVELOP OPTIMAL STOCKAGE POLICIES FOR A CATALOG OF ITEMS. THE ITEMS WERE THE REPAIR PARTS OF A ROUGH TERRAIN FORKLIFT ON WHICH A MILITARY ESSENTIALITY METHODOLOGY HAD BEEN TESTED. THE MODEL INCLUDED SUCH FACTORS AS HOLDING COST, PERFORMANCE OBJECTIVE, MILITARY ESSENTIALITY, AND TRANSPORTATION COST. AN OPTIMIZATION ALGORITHM WAS DEVELOPED AND A CONSTRAINT MANIPULATION TECHNIQUE EXPERIMENTED WITH. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-702 062 15/5 5/1
ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA
INSURANCE ITEMS STOCKAGE POLICIES. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JAN 70 44P DEEMER,ROBERT L. ;
REPT. NO. USALMC-A5000-3-70-REV

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REVISION OF REPT. NO. USALMC-
A5000-3-70 DATED JUN 69, AD-691 732.

DESCRIPTORS: (*ARMY EQUIPMENT, STOCK LEVEL
CONTROL), MANAGEMENT PLANNING, MATHEMATICAL
PREDICTION, SPARE PARTS, PROBABILITY, LOGISTICS,
STATISTICAL PROCESSES, DISTRIBUTION FUNCTIONS (U)
IDENTIFIERS: *INSURANCE ITEMS(LOGISTICS),
DEMAND(ECONOMICS), POLICYMAKING (U)

INSURANCE ITEMS ARE ITEMS WHICH ARE EXPECTED TO
FAIL INFREQUENTLY, IF AT ALL. HOWEVER, DUE TO THEIR
HIGH ESSENTIALITY AND LONG LEAD TIMES A FEW SPARES
ARE DESIRED. A METHOD OF COMPUTING NUMERICAL
STOCKAGE OBJECTIVES IS DEVISED BASED ON THE METHOD
USED FOR REGULAR STOCKED ITEMS. HOWEVER, THE MEAN
AND VARIANCE OF THE DEMAND DISTRIBUTION ARE INITIALLY
DEVELOPED FROM DEMAND HISTORIES OF ALL ITEMS
CONSIDERED INSURANCE ITEMS TWO YEARS AGO. AN
UPDATING PROCEDURE IS EMPLOYED WHICH WILL GIVE MORE
WEIGHT TO THE INDIVIDUAL ITEM'S HISTORY AS SUCH DATA
ARE OBTAINED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-702 067 12/2 5/1 13/8
STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH
THE THEORY AND APPLICATIONS OF GENERALIZED LINEAR
CONTROL PROCESSES. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
FEB 70 8UP LANSDOWNE,ZACHARY F. ;
REPT. NO. TR-10
CONTRACT: N00014-67-A-0112-0031, NSF-GP-8790
PROJ: NR-047-055

UNCLASSIFIED REPORT

DESCRIPTORS: (*PRODUCTION CONTROL, MANAGEMENT
PLANNING), (*CONTROL THEORY, MATHEMATICAL
MODELS), INVENTORY CONTROL, MANPOWER STUDIES,
DECISION THEORY, STOCHASTIC PROCESSES, ECONOMICS,
MAINTENANCE, THEOREMS, THESES (U)
IDENTIFIERS: CONTROL THEORY, MARKOV DECISION
PROCESSES, PROCESS CONTROL (U)

A NONLINEAR CONTINUOUS TIME OPTIMAL CONTROL MODEL
IS FORMULATED WHICH WE CALL A GENERALIZED LINEAR
CONTROL PROCESS. IN THIS MODEL THE STATE EQUATIONS
ARE LINEAR WITH RESPECT TO THE STATE VARIABLES, BUT
THEY ARE ALLOWED TO BE NONLINEAR WITH RESPECT TO THE
CONTROL VARIABLES; CERTAIN NONNEGATIVITY RESTRICTIONS
ARE ALSO IMPOSED UPON THE STATE VARIABLES. A THEORY
IS DEVELOPED FOR THIS MODEL, INCLUDING NECESSARY AND
SUFFICIENT CONDITIONS FOR OPTIMALITY FOR BOTH FINITE
AND INFINITE PLANNING HORIZONS. APPLICATIONS OF
THIS THEORY ARE MADE TO THE FOLLOWING PROBLEMS: A
MAINTENANCE MODEL FOR A MACHINE; AN INVESTMENTS AND
OPERATIONS MODEL OF A FIRM; THE MARKOV DECISION
PROCESS WITH BOTH FINITE AND INFINITE PLANNING
HORIZONS; A HIRING AND OVERTIME SCHEDULING MODEL OF
PRODUCTION; AND A PRODUCTION AND STORAGE MODEL FOR
PRODUCTS SUBJECT TO BREAKAGE, THEFT, OR SPOILAGE.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-702 409 12/2 5/1
STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH
COUNTABLE STATE DISCOUNTED MARKOVIAN DECISION
PROCESSES WITH UNBOUNDED REWARDS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAR 70 36P HARRISON,JOHN M. ;
REPT. NO. TR-17, TR-128
CONTRACT: NONR-225(53), NONR-225(89)
PROJ: NR-042-002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
STANFORD UNIV., CALIF., DEPT. OF STATISTICS,
GRANT NSF-GK-2925, TR-5.

DESCRIPTORS: (*DYNAMIC PROGRAMMING, *DECISION
THEORY), STOCHASTIC PROCESSES, MANAGEMENT
PLANNING, PROBABILITY DENSITY FUNCTIONS, TIME SERIES
ANALYSIS, QUEUEING THEORY, INVENTORY CONTROL,
ALGORITHMS (U)
IDENTIFIERS: MARKOV DECISION PROCESSES,
STATISTICAL DECISION THEORY, MARKOV RENEWAL
PROCESSES, BOUNDED FUNCTIONS (U)

COUNTABLE STATE, FINITE ACTION MARKOV DECISION
PROCESSES ARE INVESTIGATED UNDER A CRITERION OF
MAXIMIZING EXPECTED DISCOUNTED REWARDS OVER AN
INFINITE PLANNING HORIZON. WELL-KNOWN RESULTS OF
MAITRA AND BLACKWELL ARE GENERALIZED, THEIR
ASSUMPTION OF BOUNDED REWARDS BEING REPLACED BY THE
FOLLOWING WEAKER CONDITION: THE EXPECTED ABSOLUTE
REWARD TO BE RECEIVED AT TIME N+1 MINUS THE ACTUAL
ABSOLUTE REWARD RECEIVED AT TIME N (AS A FUNCTION
OF THE STATE OF THE SYSTEM OF TIME N, THE ACTION
TAKEN AT TIME N, AND THE DECISION RULE TO BE FOLLOWED
AT TIME N+1) CAN BE BOUNDED ABOVE. UNDER THIS
CONDITION IT IS SHOWN THAT THE EXPECTED DISCOUNTED
REWARD (OVER THE INFINITE PLANNING HORIZON) FROM
EACH POLICY IS FINITE AND THAT THERE EXISTS A
STATIONARY POLICY WHICH IS OPTIMAL. ADDITIONAL
RESULTS ARE PRESENTED CONCERNING THE POLICY
IMPROVEMENT AND SUCCESSIVE APPROXIMATIONS ALGORITHMS
FOR COMPUTATION OF OPTIMAL POLICIES. ALL OF THESE
RESULTS ARE EXTENDED TO MARKOV RENEWAL DECISION
PROCESSES UNDER ONE ADDITIONAL CONDITION ON THE
TRANSITION TIME DISTRIBUTIONS. AS IN BLACKWELL'S
WORK ON DISCOUNTED DYNAMIC PROGRAMMING A CENTRAL ROLE
IS PLAYED BY BANACH'S FIXED POINT THEOREM FOR
CONTRACTION MAPPINGS. EXAMPLES ARE PRESENTED OF
INVENTORY AND QUEUEING CONTROL PROBLEMS WHICH SATISFY
OUR ASSUMPTIONS BUT DO NOT EXHIBIT BOUNDED REWARDS. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-706 454 5/1 15/5
CENTER FOR NAVAL ANALYSES ARLINGTON VA
INVENTORY AND THE THEORY OF THE FIRM, (U)
FEB 70 18P ROSE,MARSHALL ;
REPT. NO. CNA0PROFESSIONAL PAPER-18

UNCLASSIFIED REPORT

DESCRIPTORS: (*INVENTORY ANALYSIS, MATHEMATICAL MODELS), INVENTORY CONTROL, MANAGEMENT PLANNING, COST EFFECTIVENESS, DECISION MAKING, SPARE PARTS, MAINTENANCE, ECONOMICS, OPTIMIZATION (U)

A SERIOUS CRITICISM OF THE INVENTORY MODELS PRESENTED IN THE LITERATURE IS THAT THEY OFTEN SEEK TO MINIMIZE INVENTORY COSTS RATHER THAN TO MINIMIZE TOTAL COSTS FOR A SPECIFIED PRODUCTION LEVEL. THIS NEGLECT IS CAUSED, IN LARGE MEASURE, BY A FAILURE TO CONSIDER INVENTORIES AS FACTORS OF PRODUCTION, WITH SUBSTITUTION POSSIBILITIES BETWEEN OTHER TYPES OF INPUTS. THE PAPER INCORPORATES THESE SUBSTITUTION POSSIBILITIES INTO THE ANALYSIS, AND FORMULATES AN INVENTORY MODEL WITHIN THE THEORY OF THE FIRM. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-702 455 5/1 15/5
CENTER FOR NAVAL ANALYSES ARLINGTON VA
A DECOMPOSED NETWORK COMPUTATION FOR END-PRODUCT
REPAIR COST CURVES. (U)
FEB 70 26P ROSE,MARSHALL ;
REPT. NO. CNA-PROFESSIONAL PAPER-19

UNCLASSIFIED REPORT

DESCRIPTORS: (*TIME STUDIES, MAINTENANCE),
(*MANAGEMENT PLANNING, MAINTENANCE), SPARE
PARTS, MAINTAINABILITY, OPTIMIZATION, COSTS,
PROBABILITY DENSITY FUNCTIONS, MATHEMATICAL
PROGRAMMING, ALGORITHMS (U)
IDENTIFIERS: *NETWORK ANALYSIS(MANAGEMENT),
MAINTENANCE MANAGEMENT, RESOURCE ALLOCATION,
CONSTRAINED OPTIMIZATION (U)

THE PAPER IS CONCERNED FIRST WITH DETERMINING THE
RELATIONSHIP BETWEEN THE REPAIR TIMES OF RECOVERABLE
ITEMS AND THE SERVICE TIME OF END PRODUCTS.
AFTERWARDS, AN ALGORITHM IS DEVELOPED FOR
GENERATING THE END-PRODUCT SERVICE TIME COST CURVE.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-702 457 12/2 5/1 15/5
CENTER FOR NAVAL ANALYSES ARLINGTON VA
RESOURCE ALLOCATION IN A SEQUENTIAL FLOW PROCESS,

MAR 70 26P SILVERMAN,LESTER P. ; (U)
REPT. NO. CNA-PROFESSIONAL PAPER-21

UNCLASSIFIED REPORT

DESCRIPTORS: (*STOCK LEVEL CONTROL, SPARE PARTS), (*STOCHASTIC PROCESSES, DECISION THEORY), MANAGEMENT PLANNING, OPTIMIZATION, PROBABILITY DENSITY FUNCTIONS, UNCERTAINTY, EFFICIENCY, TIME SERIES ANALYSIS, COSTS, SEQUENTIAL ANALYSIS, SUPPLY DEPOTS, TIME STUDIES (U)
IDENTIFIERS: *RESOURCE ALLOCATION, MAINTENANCE MANAGEMENT (U)

A STOCHASTIC FLOW PROCESS CONSISTING OF SEVERAL INDEPENDENT SUB-PROCESS STAGES IS CONSIDERED. AT EACH STAGE, A PROBABILITY DENSITY FUNCTION OF TIME TO SUCCESSFUL COMPLETION OF THE STAGE BY ANY OF THE (ASSUMED HOMOGENEOUS) PROCESS ITEMS IS A FUNCTION OF PARAMETERS WHICH ARE IN TURN FUNCTIONS OF THE BUDGET AT WHICH EACH SUB-PROCESS IS SUPPORTED (DECISION VARIABLES). THE PROCESS IS GENERALIZED TO ALLOW FOR THE POSSIBILITY OF AUXILIARY PROCESSING AT EACH STAGE. THE PROBLEM IS TO DETERMINE THE MINIMUM TOTAL BUDGET WHICH WILL YIELD A DESIRED CONFIDENCE IN THE TOTAL PROCESS BEING COMPLETED BY SOME DEADLINE. THE PROBLEM IS SOLVED UNDER DIFFERENT ASSUMPTIONS ABOUT THE FUNCTIONAL RELATIONSHIP BETWEEN EXPENDITURES AND THE RESULTING IMPROVEMENT IN PROCESS PARAMETERS. THE FUNDAMENTAL PURPOSE OF THE PAPER IS TO INTRODUCE THE CONCEPT THAT, IN COMPLEX SYSTEMS, THE IMPLICATIONS OF EXPENDITURES OFTEN ARE NOT KNOWN WITH CERTAINTY BUT CAN BE VIEWED AS ALTERING THE NATURE OF THE UNDERLYING STOCHASTIC PROCESS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-702 506 5/1
RAND CORP SANTA MONICA CALIF
A POLICY SCIENCES VIEW OF FUTURE STUDIES:
ALTERNATIVE FUTURES AND PRESENT ACTION, (U)
FEB 70 30P DROR,YEHEZKEL ;
REPT. NO. P-4305

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH HEBREW UNIV., JERUSALEM.

DESCRIPTORS: (*MANAGEMENT PLANNING, PREDICTIONS), THEORY (U)
IDENTIFIERS: *POLICY SCIENCES (U)

THE PAPER DISCUSSES SOME MAIN ISSUES OF POLICY-ORIENTED FUTURE STUDIES, FROM A POLICY SCIENCES POINT OF VIEW AND ARRIVES AT FIFTEEN GUIDELINES FOR SUCH STUDIES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-702 670 13/2 1/5
RAND CORP SANTA MONICA CALIF
THE POSSIBILITIES OF DEVELOPING AN EFFECTIVE
NATIONAL TRANSPORT SYSTEM IN THE 1970S. (U)
MAR 70 22P ROENNAU,LAUREL I
REPT. NO. P-4277

UNCLASSIFIED REPORT

DESCRIPTORS: (*TRANSPORTATION, MANAGEMENT
PLANNING), COMMERCE, AIR TRANSPORTATION,
PREDICTIONS, TRAFFIC, ROADS, CONTROL SYSTEMS,
SCHEDULING, NOISE (U)
IDENTIFIERS: LAND USE, NOISE POLLUTION (U)

THE REPORT DEALS WITH THE BASIC TOOLS ESSENTIAL FOR
THE TRANSPORTATION NEEDS OF THE FUTURE. THESE
ARE: DATA COLLECTION, TRAFFIC FORECASTING
REGULATORY ASPECT OF TRANSPORT GROWTH, MODAL SPLIT
CONSIDERATIONS AND TRAFFIC FLOW LIMITATIONS. SOME
OF THE MAJOR PROBLEMS WHERE USE CAN BE MADE OF THESE
TOOLS ARE CONSIDERED. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-702 673 5/1 12/2
RAND CORP SANTA MONICA CALIF
ANOTHER ESTIMATE OF EXPECTED CRITICAL PATH LENGTH IN PERT NETWORKS. (U)
MAR 70 1-P LINDSEY,JOHN , II;
REPT. NO. P-4319

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, MATHEMATICAL PREDICTION), TIME STUDIES, STOCHASTIC PROCESSES, PROBABILITY (U)
IDENTIFIERS: *CRITICAL PATH METHOD, PERT, NETWORK ANALYSIS(MANAGEMENT) (U)

THE PROGRAM EVALUATION AND REVIEW TECHNIQUE (PERT) IS A VERY WELL-KNOWN AND WIDELY-APPLIED METHOD FOR ESTIMATING THE AMOUNT OF TIME REQUIRED TO COMPLETE A COMPLEX PROJECT. THE SIMPLEST WAY TO ESTIMATE THE EXPECTED TIME TO COMPLETE THE PROJECT IS TO ASSUME EACH SUBTASK TAKES EXACTLY ITS EXPECTED TIME TO COMPLETE; AND THEN FIND A CRITICAL PATH. THIS PROCEDURE, EXCEPT IN VERY SIMPLE CASES, GIVES AN UNDERESTIMATE OF THE TRUE EXPECTED TIME REQUIRED. IN 1962 D. R. FULKERSON PUBLISHED A TECHNIQUE FOR ESTIMATING THE EXPECTED TIME REQUIRED WHICH GIVES VALUES INTERMEDIATE BETWEEN THE SIMPLEST ESTIMATE AND THE TRUE VALUE. THE PRESENT PAPER SUGGESTS ANOTHER TECHNIQUE WHICH, WHILE MORE COMPLEX THAN FULKERSON'S METHOD, IS MORE ACCURATE IN THAT IT GIVES ESTIMATES WHICH FALL BETWEEN FULKERSON'S ESTIMATES AND THE TRUE EXPECTED VALUE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AMKA

AD-702 686 15/5 5/1
RAND CORP SANTA MONICA CALIF
ILS--PREREQUISITE TO IMPROVED OPERATIONAL
CAPABILITY.
MAR 70 34P PAULSON,R. M. ;WAINA,R.
B. ; (U)
REPT. NO. P-4318

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, LOGISTICS),
(*AIR FORCE OPERATIONS, MAINTENANCE),
DEPARTMENT OF DEFENSE, SYSTEMS ENGINEERING, LIFE
EXPECTANCY, DECISION MAKING, COST EFFECTIVENESS,
MODELS(SIMULATIONS), TIME, EFFECTIVENESS (U)
IDENTIFIERS: ILS(INTEGRATED LOGISTIC SUPPORT),
INTEGRATED LOGISTIC SUPPORT, LOGISTICS MANAGEMENT,
MANAGEMENT INFORMATION SYSTEMS (U)

THE DOCUMENT COVERS A COMPOSITE OF THE ELEMENTS
NECESSARY TO ASSURE THE EFFECTIVE AND ECONOMICAL
SUPPORT OF A SYSTEM OR EQUIPMENT AT ALL LEVELS OF
MAINTENANCE FOR ITS PROGRAMMED LIFE CYCLE.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-702 779 1/2
NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER ATLANTIC CITY N J
ANALYTICAL STUDY OF AIR TRAFFIC CAPACITY IN THE NEW YORK METROPOLITAN AREA AND NEW YORK AIR TRAFFIC CAPACITY STUDY (REAL TIME SIMULATION). (U)
DESCRIPTIVE NOTE: COMBINED FINAL REPTS.,
FEB 70 226P FAISON,WALTER E. ;MEISNER, MILTON B. ;PETERSEN,PAUL H. ;GIVEN,JAMES J. ;SLATTERY,HOWARD F. ;
REPT. NO. NA-70-15
PROJ: FAA-154-004-02A, FAA-154-004-01A
MONITOR: FAA-RD 70-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR TRAFFIC, *NEW YORK), AIRPORTS, MANAGEMENT PLANNING, RUNWAYS, AIR TRAFFIC CONTROL SYSTEMS, SIMULATION, REAL TIME, MATHEMATICAL MODELS, URBAN PLANNING (U)

THE REPORT CONSISTS OF TWO COMPLEMENTARY STUDIES DIRECTED TO THE DETERMINATION OF THE AIR TRAFFIC CAPACITY IN THE NEW YORK METROPOLITAN AREA DURING THE PERIOD FROM ABOUT 1972 TO ABOUT 1980. THE STUDIES ASSUME THAT TWO ADDITIONAL PARALLEL RUNWAYS AND TWO SHORT GENERAL AVIATION RUNWAYS WILL HAVE BEEN ADDED AT JOHN F. KENNEDY INTERNATIONAL AIRPORT AND TWO ADDITIONAL PARALLELS WILL HAVE BEEN ADDED AT NEWARK AIRPORT. IT ALSO ASSUMES THAT IMPROVEMENTS IN THE AIR TRAFFIC CONTROL AND NAVIGATION SUBSYSTEMS WILL HAVE BEEN IMPLEMENTED. THE FIRST STUDY IS AN ANALYTICAL AND MATHEMATICAL METHODOLOGY TO ESTIMATE CAPACITY. THE SECOND STUDY IS A REAL TIME SIMULATION STUDY CONDUCTED ON THE AIR TRAFFIC CONTROL SIMULATION SYSTEM AT THE NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER. THIS STUDY WAS CONDUCTED TO PROVIDE A SYNTHESIS OF SEVERAL OF THE PROPOSED METHODS FOR INCREASING CAPACITY AS WELL AS VERIFY CAPACITY ESTIMATES MADE IN THE FIRST STUDY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-703 165 6/5 5/1
RAND CORP SANTA MONICA CALIF
MEDICAL COSTS, HEALTH INSURANCE, AND PUBLIC
POLICY, (U)
70 39P NEWHOUSE,JOSEPH P. ;TAYLOR,
VINCENT ;
REPT. NO. P-4274-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*MEDICINE, COSTS), (*PUBLIC
HEALTH, MANAGEMENT PLANNING), HOSPITALS, PUBLIC
RELATIONS, PROBLEM SOLVING, ECONOMICS,
ATTITUDES (U)
IDENTIFIERS: HOSPITAL INSURANCE, VARIABLE COST
INSURANCE (U)

THE PAPER DESCRIBES A NUMBER OF SIDE EFFECTS OF
PRESENT HEALTH INSURANCE PLANS, AND PROPOSES A NEW
TYPE OF HOSPITAL INSURANCE WHICH CAN PRESERVE THE
APPEALING FEATURES PRESENT PLANS WHILE ELIMINATING
SOME OBJECTIONABLE ASPECTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 244 9/2
PENNSYLVANIA UNIV PHILADELPHIA MOORE SCHOOL OF ELECTRICAL ENGINEERING
A DATA DESCRIPTION FACILITY. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
APR 70 33P SMITH,DIANE PIROG ;
REPT. NO. 70-23
CONTRACT: N00014-67-A-0216-0007
PROJ: NR-049-272

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, *PROGRAMMING LANGUAGES), INFORMATION RETRIEVAL, DATA STORAGE SYSTEMS, INTERFACES, COMPUTATIONAL LINGUISTICS, SYNTAX, MANAGEMENT PLANNING (U)
IDENTIFIERS: DATA BASES, *FILE STRUCTURES, *DATA MANAGEMENT (U)

PROBLEMS WHICH HAVE ARISEN IN THE MANAGEMENT OF DATA ARE EXAMINED FOR A COMMON ROOT. THE EXAMINATION SUGGESTS THE NEED FOR BETTER DATA DESCRIPTION FACILITIES. ON THIS BASIS, AN ATTEMPT IS MADE TO GENERALIZE THE FUNCTIONS OF DATA DESCRIPTION, AND A DEFINITION OF A DATA DESCRIPTION LANGUAGE IS FORMULATED. CURRENT WORK ON ALL ASPECTS OF THESE PROBLEMS IS SURVEYED AND CRITICIZED ON THE BASIS OF HOW WELL DEFINED FUNCTIONS ARE FULFILLED. THOSE PROBLEMS ON WHICH NO START HAS BEEN MADE OR FOR WHICH ONLY INADEQUATE SOLUTIONS HAVE BEEN PROPOSED ARE SUMMARIZED AND A MORE COMPREHENSIVE, GENERALIZED APPROACH IS PROPOSED. FINALLY, THE SPECIFICATION IS GIVEN OF A DATA DESCRIPTION LANGUAGE AND ITS PROCESSOR, WHICH ARE BEING DESIGNED TO MEET THE DEMANDS OF THE APPROACH PROPOSED AND THE PROBLEMS DISCUSSED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-703 387 5/1
RAND CORP SANTA MONICA CALIF
COST-EFFECTIVENESS: SOME TRENDS IN ANALYSIS. (U)

MAR 70 27P QUADE,E. S. ;
REPT. NO. P-3529-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*COST EFFECTIVENESS, ANALYSIS), DECISION MAKING, ECONOMICS, PROBLEM SOLVING, PROGRAMMING(COMPUTERS), MATHEMATICAL MODELS, MANAGEMENT PLANNING, BEHAVIOR, STATISTICAL ANALYSIS (U)
IDENTIFIERS: SYSTEMS ANALYSIS, TRENDS IN ANALYSIS, DELPHI TECHNIQUE (U)

COST-EFFECTIVENESS ANALYSIS IS NOT A STATIC CRAFT; NEW APPROACHES AND TECHNIQUES ARE BEING PROPOSED CONSTANTLY. MANY OF T SE ARE PRIMARILY COMPUTATIONAL IN NATURE, BUT A FEW ARE DIRECTED TOWARD A BETTER TREATMENT OF THOSE ASPECTS OF ITS PROBLEMS THAT CANNOT BE HANDLED BY PURELY QUANTITATIVE METHODS. THE EMPHASIS IN THIS PAPER WILL BE ON THE LATTER. IT WILL NOT ATTEMPT TO BE COMPREHENSIVE BUT WILL MERELY NOTE FOUR TRENDS INVOLVING, RESPECTIVELY: COMPUTERS, MATHEMATICS, THE USE OF EXPERTISE, AND PROCEDURES TO IMPROVE ACCEPTANCE AND IMPLEMENTATION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 621 1/5 5/1 12/2
PURDUE UNIV LAFAYETTE IND KRANNERT GRADUATE SCHOOL OF INDUSTRIAL ADMINISTRATION
A LINEAR PROGRAMMING APPROACH TO AIRPORT CONGESTION. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAR 70 41P KIEFER,DONALD W. ;
CONTRACT: N00014-67-A-0226-0006, DA-31-124-ARO(D)-477
MONITOR: AROD 6368.9-M

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIRPORTS, MANAGEMENT PLANNING), (*AIR TRAFFIC, LINEAR PROGRAMMING), AIR TRAFFIC CONTROL SYSTEMS, COSTS, MATHEMATICAL MODELS, SCHEDULING, ECONOMICS, OPTIMIZATION (U)
IDENTIFIERS: *AIRPORT CONGESTION (U)

THE PAPER IS AN ATTEMPT TO DEVELOP A LINEAR PROGRAMMING FRAMEWORK WHICH WILL ARRIVE AT SOLUTIONS TO THE PROBLEM OF AIRPORT CONGESTION AT A GIVEN AIRPORT. THE LANDING FEE CHARGED TO AIRCRAFT FOR LANDING AT THE AIRPORT IS USED AS A PRICE MECHANISM TO ALLOCATE AIRPORT FACILITIES TO POTENTIAL USERS. SEVERAL MODELS ARE DEVELOPED IN WHICH THE DEMAND FOR AND SUPPLY OF AIRPORT FACILITIES ARE EQUATED WITHIN DIFFERENT POLICY FRAMEWORKS. THE POLICY FRAMEWORKS INCLUDE (1) ALLOWING MARKET FORCES TO WORK WITHOUT CONSTRAINT, (2) PASSENGER MAXIMIZATION, (3) A GENERAL FRAMEWORK IN WHICH VARIOUS PRICING SCHEMES CAN BE USED, (4) PROFIT MAXIMIZATION AND (5) A MULTI-TIME PERIOD MODEL IN WHICH A CONTROLLED LEVEL OF CONGESTION IS ALLOWED. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 653 12/2 5/1
CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE INST
CONDITIONAL MONTE CARLO: A SIMULATION TECHNIQUE FOR STOCHASTIC NETWORK ANALYSIS. (U)
FEB 70 28P BURT,JOHN M. ; JR.;GARMAN, MARK B. ;
REPT. NO. WMSI WORKING PAPER-157
CONTRACT: N00014-69-A-0200-4005; NSF-GS-2041
PROJ: NR-047-041

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, FLOW CHARTING); (*STOCHASTIC PROCESSES, *MONTE CARLO METHOD), SIMULATION, STATISTICAL DISTRIBUTIONS, TIME SERIES ANALYSIS, MULTIVARIATE ANALYSIS, ALGORITHMS (U)
IDENTIFIERS: *NETWORK ANALYSIS(MANAGEMENT), PERT (U)

THE PAPER IS CONCERNED WITH A SIMULATION PROCEDURE FOR ESTIMATING THE DISTRIBUTION FUNCTIONS OF THE TIME TO COMPLETE STOCHASTIC NETWORKS. THE PROCEDURE, CALLED CONDITIONAL MONTE CARLO, IS SHOWN TO BE SUBSTANTIALLY MORE EFFICIENT (IN TERMS OF THE COMPUTATIONAL EFFORT REQUIRED) THAN TRADITIONAL SIMULATION METHODS. THE EFFICACY OF CONDITIONAL MONTE CARLO AND ITS USE IN CONJUNCTION WITH OTHER MONTE CARLO METHODS IS ILLUSTRATED FOR THE WHEATSTONE BRIDGE NETWORK. THE APPLICABILITY OF THE PROCEDURE TO LARGER NETWORKS, AS WELL AS OTHER STOCHASTIC SYSTEMS, IS DISCUSSED AND A GENERAL METHOD IS GIVEN FOR ITS IMPLEMENTATION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 861 S/1
RAND CORP SANTA MONICA CALIF
ARE COST OVERRUNS A MILITARY-INDUSTRY-COMPLEX SPECIALTY, (U)
MAR 70 7P NOVICK,DAVID ;
REPT. NO. P-4311

UNCLASSIFIED REPORT

DESCRIPTORS: (*COSTS, ARMED FORCES PROCUREMENT), (*MANAGEMENT PLANNING, REVIEWS), PROBLEM SOLVING, INEQUALITIES, ERRORS, DESIGN, CONSTRUCTION, PREDICTIONS (U)
IDENTIFIERS: COST OVERRUNS, ORIGINAL ESTIMATES, COST CONTROL (U)

THE DOCUMENT PRESENTS THE VIEW THAT IN THE DESIGN, PROCUREMENT, AND PRODUCTION OF FUTURE GOODS, ERRORS WILL ALWAYS BE MADE, WHETHER IN THE PURCHASE OF NEW SPACE VEHICLES FOR GOVERNMENT USE, THE INTRODUCTION OF NEW POWER PLANTS BY PRIVATELY OWNED ELECTRIC COMPANIES, OR THE PURCHASE OF NEW OFFICE BUILDINGS AND HOMES BY PRIVATE INDIVIDUALS. THIS HAS BEEN THE CASE SINCE ROMAN TIMES AND CAN BE EXPECTED TO CONTINUE IN THE FORESEEABLE FUTURE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 871 5/9 5/10 5/1
TEXAS TECHNOLOGICAL COLL LUBBOCK
THE INCORPORATION OF BEHAVIORAL SCIENCES INTO MANAGEMENT CURRICULA AND RESEARCH (A STUDY OF CHANGE),
MAR 70 9P LUCHSINGER,V. P. ; (U)
CONTRACT: DAADUS-69-C-0102

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON PROJECT THEMIS, PRESENTED AT THE MOUNTAIN-PLAINS MANAGEMENT CONFERENCE, DURANGO, COLO., 24 OCT 68.

DESCRIPTORS: (*BEHAVIOR, SCIENTIFIC RESEARCH), (*MANAGEMENT ENGINEERING, PROGRAMMED INSTRUCTION), CORRELATION TECHNIQUES TEACHING METHODS, APPLIED PSYCHOLOGY, EFFECTIVENESS (U)
IDENTIFIERS: THEMIS PROJECT, BEHAVIORAL SCIENCES (U)

THE STUDY IS CONCERNED WITH THE BEHAVIORAL SCIENCES AND THEIR RELATIONSHIP TO MANAGEMENT CURRICULA. SOME QUESTION AREAS ARE: ARE THE SUBJECTS OF INTEREST TO STUDENTS AND PRACTITIONERS OF THE BEHAVIORAL SCIENCES IN MANAGEMENT; HOW ARE THE BEHAVIORAL SCIENCES INTEGRATED INTO THE CURRICULUM; AND WHO PROVIDES THE BEHAVIORAL SCIENCE INSTRUCTION IN MANAGEMENT CURRICULA. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 872 15/5
ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA
COST-MINIMIZING INVENTORY CONTROL OF ITEMS HAVING
A SPECIAL TYPE OF ERRATIC DEMAND PATTERN. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAR 70 47P DEEMER,ROBERT L. ;HO,
CHUNG-MEI ;SILVER,EDWARD A. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY EQUIPMENT, *INVENTORY
CONTROL), (*INVENTORY, MATHEMATICAL PREDICTION),
PERIODIC VARIATIONS, COSTS, MANAGEMENT PLANNING,
OPTIMIZATION, STATISTICAL DISTRIBUTIONS,
PROBABILITY (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, ERRATIC DEMAND
PATTERNS (U)

THE PAPER CONSIDERS AN ITEM WITH A DEMAND PATTERN
CHARACTERIZED BY POISSON OCCURRENCES OF
TRANSACTIONS WHOSE SIZES ARE GEOMETRICALLY
DISTRIBUTED. EMPIRICALLY IT HAS BEEN FOUND THAT A
SIGNIFICANT NUMBER OF INVENTORIED ITEMS POSSESS A
DEMAND PATTERN OF THIS TYPE. FOR A REORDER-POINT
(R), ORDER-UP-TO LEVEL (M) SYSTEM UNDER
CONTINUOUS REVIEW AND COMPLETE BACKORDERING A
PRACTICAL PROCEDURE IS DEVELOPED FOR DETERMINING THE
VALUES OF R AND M AS FUNCTIONS OF THREE GIVEN
PARAMETERS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-703 896 5/1 9/2
PURDUE UNIV LAFAYETTE IND KRANNERT GRADUATE SCHOOL OF INDUSTRIAL ADMINISTRATION
A UNIFIED APPROACH TO THE THEORY OF ACCOUNTING AND INFORMATION SYSTEMS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAR 70 41P COLANTONI,CLAUDE S. ;MANES, RENE P. ;WHINSTON,ANDREW ;
CONTRACT: N00014-67-A-0226-0006

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, RECORDS), (*DATA PROCESSING SYSTEMS, THEORY), INFORMATION RETRIEVAL, PROGRAMMING(COMPUTERS), INFORMATION THEORY, PROBLEM SOLVING, AUTOMATION, ALGEBRAS, ARMED FORCES RESEARCH (U)
IDENTIFIERS: ACCOUNTING, MANAGEMENT INFORMATION SYSTEMS, ACCOUNTING THEORY (U)

THE PAPER IS DIRECTED TOWARD A UNIFIED SOLUTION TO THE MODIFICATION OF CONVENTIONAL ACCOUNTING THEORY NECESSARY TO MAKE IT MORE COMPATIBLE WITH PRESENT COMPUTER TECHNOLOGY AND TO EXTEND THE SYSTEM TO INCLUDE MORE DIVERSIFIED TYPES OF INFORMATION AND PRESENTS WHAT WE CONSIDER TO BE A NEW APPROACH TO THE THEORY OF ACCOUNTING. THE THEORY IS BASED ON AN EVENTS APPROACH TO ACCOUNTING AND THE CONCEPT OF ON-LINE DIRECT ACCESS STORAGE AND RETRIEVAL. IT TAKES THE COMPUTER AND ITS USES AS AN ENVIRONMENTAL FACT, AND BASES THE THEORY ON THE EFFICIENT UTILIZATION OF THIS EQUIPMENT TO SATISFY THE INFORMATIONAL NEEDS OF ITS USERS. IT IS AN ATTEMPT TO GENERALIZE THE THEORY OF ACCOUNTING IN A MANNER COMPATIBLE WITH THE INCREASED DEMANDS PLACED ON ACCOUNTANTS BY ADVANCES IN THE MANAGEMENT AND COMPUTER SCIENCES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-703 967 5/1
ARMY MANAGEMENT SCHOOL FORT BELVOIR VA
ARMY MANAGEMENT VIEWS, VOLUME XV, BOOK 1, (U)
MAR 70 22BP DAHLGREN,CHARLES W. ;
SUMMERS,MURRAY ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 14, BOOK 2, AD-703 966.

DESCRIPTORS: (*ARMY OPERATIONS, *MANAGEMENT ENGINEERING), THEORY, TEST FACILITIES, LEADERSHIP, PROBLEM SOLVING, MATHEMATICAL PREDICTION, INDUSTRIAL PRODUCTION, OPERATIONS RESEARCH, WEAPON SYSTEMS, DECISION MAKING, COMMUNICATION SYSTEMS, PERSONNEL MANAGEMENT, CREATIVITY, REPORTS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, SYSTEMS ANALYSIS (U)

CONTENTS: MANAGEMENT THEORY, COMMAND MANAGEMENT, INSTALLATION MANAGEMENT, INDUSTRIAL MANAGEMENT, OPERATIONS RESEARCH, PROCUREMENT MANAGEMENT, PERSONNEL MANAGEMENT, AND CREATIVE PROBLEM SOLVING. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-703 990 5/1
RAND CORP SANTA MONICA CALIF
PACBIR--A FORM OF REGIONAL GOVERNMENTAL
COOPERATION. (U)
MAR 70 22P SAVAGE,E. J. ;
REPT. NO. P-4320

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT MONTHLY MEETING OF THE
LEAGUE OF CALIFORNIA CITIES, BERKELEY, CALIF.
MAY 68.

DESCRIPTORS: (*MANAGEMENT PLANNING,
ORGANIZATIONS), (*ECONOMICS, PROBLEM SOLVING),
POPULATION, WAGES, EMPLOYMENT, NATURAL
RESOURCES, EDUCATION, UNITED STATES GOVERNMENT,
URBAN AREAS, RURAL AREAS, DISASTERS, BUDGETS (U)
IDENTIFIERS: POST WAR ADJUSTMENT PERIODS,
PACBIR(PACIFIC COAST BOARD OF
INTERGOVERNMENTAL RELATIONS), PACIFIC COAST
BOARD OF INTERGOVERNMENTAL RELATIONS, STATE
GOVERNMENT, LOCAL GOVERNMENT (U)

THE PURPOSE OF THE PAPER IS TO EXAMINE THE PURPOSE,
SCOPE, AND FUNCTIONAL ACCOMPLISHMENTS OF THE
PACIFIC COAST BOARD OF INTERGOVERNMENTAL
RELATIONS, A REGIONAL STRUCTURE WHOSE ACTIVITIES
HAS A SIGNIFICANT IMPACT ON WESTERN LIVING
IMMEDIATELY FOLLOWING WORLD WAR 2.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-704 185 15/5
DEFENSE SUPPLY AGENCY ALEXANDRIA VA
ITEM STOCKAGE FOR A LOOSE ISSUE WAREHOUSE. (U)
MAR 70 17P

UNCLASSIFIED REPORT

DESCRIPTORS: (*WAREHOUSES, MANAGEMENT PLANNING), (*INVENTORY CONTROL, COST EFFECTIVENESS), MATHEMATICAL PREDICTION, STATISTICAL ANALYSIS, PARTIAL DIFFERENTIAL EQUATIONS, DEPARTMENT OF DEFENSE (U)
IDENTIFIERS: LOOSE ISSUE MATERIEL, BIN REPLENISHMENT (U)

THE REPORT OUTLINES A PROCEDURE FOR STOCKING A LOOSE ISSUE OPERATION IN SUCH A WAY THAT REPLENISHMENT COSTS ARE MINIMIZED. THE BASIC PRINCIPLE IS THAT OF GIVING PREFERENCE, WITHIN THE LIMITS OF AVAILABLE SPACE, TO THOSE ITEMS FOR WHICH A SMALL AMOUNT OF SPACE WILL CONTAIN A LONG-LASTING SUPPLY; THUS REDUCING THE NUMBER OF BIN REPLENISHMENTS REQUIRED FOR A GIVEN NUMBER OF ISSUE DOCUMENTS. THIS PROVIDES FOR THE LARGEST POSSIBLE SIZE OF A BIN REPLENISHMENT SO AS TO MAKE BEST UTILIZATION OF MATERIALS HANDLING EQUIPMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-704 362 5/3 5/2 9/2
PURDUE UNIV LAFAYETTE IND KRANNERT GRADUATE SCHOOL OF INDUSTRIAL ADMINISTRATION
A UNIFIED APPROACH TO THE THEORY OF ACCOUNTING AND INFORMATION SYSTEMS. (U)
MAR 70 41P COLANTONI,CLAUDE S. ;MANES, RENE P. ;RAMINSTON,ANDREW ;
CONTRACT: DA-31-124-ARO(D)-477
MONITOR: AROD 6366.7-M

UNCLASSIFIED REPORT

DESCRIPTORS: (*MONEY, RECORDS), (*DATA PROCESSING SYSTEMS, MONEY), MANAGEMENT PLANNING, INFORMATION RETRIEVAL, PROGRAMMING(COMPUTERS), ERRORS, DATA STORAGE SYSTEMS, DECISION MAKING, ECONOMICS, CODING, SEQUENCES, PROBLEM SOLVING, ARMED FORCES RESEARCH (U)
IDENTIFIERS: *ACCOUNTING, INFORMATION SYSTEMS (U)

THE PAPER IS DIRECTED TOWARD A UNIFIED SOLUTION TO THE MODIFICATION OF CONVENTIONAL ACCOUNTING THEORY NECESSARY TO MAKE IT MORE COMPATIBLE WITH PRESENT COMPUTER TECHNOLOGY AND TO EXTEND THE SYSTEM TO INCLUDE MORE DIVERSIFIED TYPES OF INFORMATION; IT PRESENTS WHAT IS CONSIDERED TO BE A NEW APPROACH TO THE THEORY OF ACCOUNTING. THE THEORY IS BASED ON AN EVENTS APPROACH TO ACCOUNTING AND THE CONCEPT OF ON-LINE DIRECT ACCESS STORAGE AND RETRIEVAL. IN GENERAL, IT IS AN ATTEMPT TO GENERALIZE THE THEORY OF ACCOUNTING IN A MANNER COMPATIBLE WITH THE INCREASED DEMANDS PLACED ON ACCOUNTANTS BY ADVANCES IN THE MANAGEMENT AND COMPUTER SCIENCES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-704 366 15/3 5/1
RESEARCH TRIANGLE INST DURHAM N C OPERATIONS RESEARCH AND ECONOMICS DIV
DEFINITION OF LOCAL OPERATING AREAS. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
MAR 70 87P TRUSTMAN,S. ;
REPT. NO. RTI-OU-427-2
CONTRACT: DAHC20-69-C-0107
PROJ: OCD-4316B

UNCLASSIFIED REPORT

DESCRIPTORS: (*CIVIL DEFENSE SYSTEMS, *MANAGEMENT PLANNING), THREAT EVALUATION, URBAN AREAS, RURAL AREAS, DATA PROCESSING SYSTEMS, POPULATION, VULNERABILITY, STANDARDS, PERSONNEL (U)

THE OBJECTIVES OF THIS INVESTIGATION WERE THREEFOLD: THE INVESTIGATION AND ANALYSIS OF PATTERNS OF GEOGRAPHICAL SUBDIVISIONS OF LOCALITIES IN TERMS OF THEIR USABILITY AND DESIRABILITY FOR THE PURPOSES OF EVALUATING LOCAL TOTAL CIVIL DEFENSE SYSTEMS; THE DETERMINATION OF DATA TO BE COLLECTED TO DESCRIBE EACH OF THE GEOGRAPHICAL SUBDIVISIONS IN TERMS SUITABLE FOR THE EVALUATION OF LOCAL CIVIL DEFENSE SYSTEMS; AND THE DEVELOPMENT OF PROCEDURES TO ESTIMATE THE VULNERABILITY OF THE PEOPLE, INSTITUTIONS AND RESOURCES OF THE GEOGRAPHIC SUBDIVISIONS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-704 760 5/1
FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO
FAILURE TO INTRODUCE INDUSTRIAL ENGINEERING SCORED. (U)

MAR 70 9P ZYABREV,V. ;PROVOTOROV,A. ;
REPT. NO. FTD-HT-23-162-70
PROJ: FTD-722015/

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: EDITED TRANS. OF PRAVDA, MOSCOW (USSR) P3, 11 DEC 69.

DESCRIPTORS: (*INDUSTRIES, AUTOMATION), (*MANAGEMENT PLANNING, USSR), REVIEWS, ATTITUDES, COST EFFECTIVENESS, EFFICIENCY (U)
IDENTIFIERS: TRANSLATIONS, *INDUSTRIAL ENGINEERING (U)

THE DOCUMENT IS CONCERNED WITH THE RANGE OF AVAILABLE INDUSTRIAL ENGINEERING FACILITIES TO PROMOTE INCREASED LABOR PRODUCTIVITY ON THE PART OF ENGINEERING AND TECHNICAL PERSONNEL BY FREEING THEM FOR THE PERFORMANCE OF TASKS NOT REQUIRING SPECIALIZED TRAINING. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-704 776 5/9 5/1
RAND CORP SANTA MONICA CALIF
COST-EFFECTIVENESS ANALYSIS FOR EDUCATIONAL PLANNING. (U)
MAR 70 15P CARPENTER,MARGARET B. ;
HAGGART,SUE A. ;
REPT. NO. P-4327

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, MANAGEMENT PLANNING), (*MANAGEMENT PLANNING, *COST EFFECTIVENESS), SYSTEMS ENGINEERING, PERFORMANCE(HUMAN), PROBLEM SOLVING, MONEY, SCHEDULING, MEASUREMENT (U)
IDENTIFIERS: PROGRAM BUDGETING, OBJECTIVES (U)

EDUCATIONAL PLANNING IS ULTIMATELY CONCERNED WITH ACHIEVING A MORE EFFECTIVE USE OF EDUCATIONAL RESOURCES IN IMPROVING PUPIL PERFORMANCE. THERE ARE SEVERAL INTERMEDIATE STEPS IN THE REALIZATION OF THIS GOAL. COST-EFFECTIVENESS ANALYSIS IS A TOOL THAT CAN ASSIST THE PLANNER IN RELATING THE RESOURCES REQUIRED BY AN EDUCATIONAL PROGRAM TO ITS EFFECTIVENESS, OFTEN MEASURED BY PUPIL ACHIEVEMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-704 806 S/1
WISCONSIN UNIV MILWAUKEE SCHOOL OF BUSINESS
ADMINISTRATION
TESTING A HYPOTHESIS ON INNOVATION BY MEASUREMENT OF
ORGANIZATIONAL GOAL STRUCTURES. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
APR 70 13P HABERSTROH,CHADWICK J. ;
CONTRACT: N00014-67-A-0128-0005
PROJ: NR-177-921

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORGANIZATIONS, MANAGEMENT
PLANNING), PERFORMANCE(HUMAN),
PROGRAMMING(COMPUTERS), ANALYSIS OF VARIANCE,
MALFUNCTIONS, STATISTICAL PROCESSES, DATA
PROCESSING SYSTEMS, THEORY, COMMUNICATION SYSTEMS (U)
IDENTIFIERS: INNOVATIONS, OBJECTIVES, COMPUTER
ANALYSIS (U)

A SET OF MEASURES OF INNOVATION IN AN ORGANIZATION
IS DERIVED FROM CONTENT-ANALYSIS OF ORGANIZATION
COMMUNICATION AT SUCCESSIVE TIME POINTS. THE DATA
ARE USED TO TEST A HYPOTHESIS THAT INNOVATION IN
DIVISIONALLY CONTROLLED PROGRAMS IS POSITIVELY
RELATED TO DIVISION PERFORMANCE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-709 610 5/8 5/1 9/2
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
PLANNING BY MAN-MACHINE SYNERGISM: A
CHARACTERIZATION OF PROCESSES AND ENVIRONMENT. (U)
MAR 70 91P MONMANN,AIKO M. ;
REPT. NO. SDC-SP-3464/000/00
CONTRACT: DAHC15-67-C-0149, NONR-4745(00)
PROJ: NR-348-009

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, *MAN-MACHINE SYSTEMS), PROBLEM SOLVING, DECISION MAKING, PROGRAMMING(COMPUTERS), UNCERTAINTY (U)
IDENTIFIERS: *M/M, MACHINE SYNERGISM (U)

THE PAPER DESCRIBES AN ATTEMPT TO COUPLE THE COMPLEMENTARY CAPABILITIES OF MAN AND MACHINE IN THE CONTEXT OF PLANNING AND CREATIVE PROBLEM SOLVING. SOME REAL-WORLD PROBLEMS TO WHICH MAN-MACHINE TECHNIQUES CAN BE FRUITFULLY APPLIED ARE CHARACTERIZED, AND THE TYPES OF DECISION DYNAMICS INFLUENCED BY THESE CHARACTERISTICS ARE IDENTIFIED. THEN, HOW MAN TENDS TO HANDLE COMPLEXITY AND UNCERTAINTY IS DISCUSSED IN TERMS OF THE CONCEPT OF 'COGNITIVE ECONOMY.' NEXT, CHARACTERISTICS OF PLANNING PROCESSES ARE DISCUSSED IN TERMS OF THE HIERARCHICAL, ITERATIVE NATURE OF PLANNING AND THE STAGES OF PROBLEM SOLVING (GOAL SETTING, ALTERNATIVE GENERATION, CONSEQUENCE ESTIMATION, AND EVALUATION AND ALTERNATIVE SELECTION). STRUCTURAL ATTRIBUTES EXTRACTED FROM SUCH CHARACTERIZATION CONSTITUTE THE BASIC FRAMEWORK AND GUIDING MECHANISM FOR INTERACTION IN GAKU, A SYSTEM OF COMPUTER PROGRAMS DESIGNED AS A STEP TOWARD MAN-MACHINE SYNERGISM. FEATURES OF GAKU ARE THEN DESCRIBED IN TERMS OF BOTH BUILT-IN CAPABILITIES THAT ARE RELATIVELY PROBLEM INDEPENDENT AND MAN-MACHINE ACTIONS FOR DYNAMIC EXTENSION OF THESE CAPABILITIES THAT ARE PROBLEM DEPENDENT AND USER ORIENTED. THE LATTER CAN BE SEEN TO MAKE THE SYSTEM INCREASINGLY USEFUL AND POWERFUL AS A 'CO-EVOLVING' MAN-MACHINE TEAM. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-704 862 9/2 15/7
SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
AUTOMATION: SOME PIONEERING MILITARY APPLICATIONS. (U)

JAN 70 42P PHILLIPS,DAVID C. ;
REPT. NO. SDC-SP-3465

UNCLASSIFIED REPORT

DESCRIPTORS: (*COMPUTERS, *ARMED FORCES OPERATIONS), AUTOMATION, DATA PROCESSING SYSTEMS, MANAGEMENT PLANNING, COMMAND + CONTROL SYSTEMS, MATHEMATICAL MODELS, SIMULATION, MAN-MACHINE SYSTEMS, ATTITUDES, ARMED FORCES RESEARCH (U)
IDENTIFIERS: COMPUTERIZED SIMULATION (U)

THE DIVERSITY OF COMPUTERIZED SYSTEMS IS EXAMINED, WITH EMPHASIS UPON INNOVATIVE APPLICATIONS BY THE MILITARY SERVICES. THE LIMITATIONS AND THE ADVANTAGES OF COMPUTERS ARE HIGHLIGHTED IN AN ATTEMPT TO DETERMINE THE EXTENT TO WHICH MAN HAS REACTED TO THIS TECHNICAL REVOLUTION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-704 676 5/3 9/2
RAND CORP SANTA MONICA CALIF
FINANCIAL INDUSTRIES NEED FOR COMPUTER TECHNOLOGY IN THE SEVENTIES. (U)
APR 70 5P NOVICK,DAVID ;
REPT. NO. P-4340

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT UCLA/INFORMATICS SYMPOSIUM ON EXPANDING USE OF COMPUTERS IN THE 70'S: MARKET NEEDS TECHNOLOGY, PANEL V, SPECIAL NEW MARKETS; COMMERCE AND INDUSTRY ROUND TABLE, LOS ANGELES, CALIF., 30 MAR-1 APR 70.

DESCRIPTORS: (*MONEY, COMMERCE), (*INDUSTRIES, *DATA PROCESSING SYSTEMS), BANKING, RECORDS, MANAGEMENT PLANNING, AUTOMATION, PROGRAMMING(COMPUTERS), PREDICTIONS (U)
IDENTIFIERS: GROSS NATIONAL PRODUCT, STOCK MARKETS, ACCOUNTING (U)

IN LIGHT OF (1) THE DIFFICULTIES IN OBTAINING ADEQUATE PERSONNEL, (2) THE HIGHER PAY RATES THAT ARE REQUIRED TO GET AND HOLD PEOPLE, AND (3) THE FACTORS THAT MAKE FOR CONTINUING GROWTH IN VOLUME, AUTOMATION OF THE DATA PROCESSING ACTIVITY BECOMES A PRIME NEED OF THE BANKING INDUSTRY FOR THE SEVENTIES. IN BOTH THE BANKING AND THE SECURITIES TRANSACTIONS BUSINESSES IN WHICH THE ORIGINAL EMPHASIS HAD BEEN ON GETTING THE CUSTOMERS, THE ROLE OF SERVICING THE MASS CUSTOMERS HAS GAINED A NEW IMPORTANCE. IN THE DECADE WE ARE NOW ENTERING, AUTOMATION IN BANKING AND FINANCING WILL EXPAND SUBSTANTIALLY. AS A WIDER VARIETY OF SERVICES ARE PERFORMED BY AUTOMATED EQUIPMENT IN THE BANKING AND SECURITIES INDUSTRIES, MORE VARIED AND MORE NUMEROUS SOFTWARE ROUTINES WILL BE REQUIRED TO PERFORM BOTH THE NEW SERVICES AND THE POTENTIAL NEW ONES THAT WILL BE DEVELOPED. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-704 912 5/9 9/2
FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER
EMPIRICAL DEVELOPMENT OF A COMPUTER MANAGED INSTRUCTION SYSTEM FOR THE FLORIDA STATE UNIVERSITY MODEL FOR THE PREPARATION OF ELEMENTARY SCHOOL TEACHERS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
APR 70 135P HOBSON,EDWARD NEWTON ;
REPT. NO. CAI-TR-8
CONTRACT: N00014-69-A-0494
PROJ: NR-154-280

UNCLASSIFIED REPORT

DESCRIPTORS: (*INSTRUCTORS, TRAINING), (*PROGRAMMED INSTRUCTION, INSTRUCTORS), MODELS(SIMULATIONS), MANAGEMENT PLANNING, TEST CONSTRUCTION(PSYCHOLOGY), PROBLEM SOLVING, DATA PROCESSING SYSTEMS, STATISTICAL ANALYSIS, UNIVERSITIES, FLORIDA (U)
IDENTIFIERS: *COMPUTER AIDED INSTRUCTION, ELEMENTARY SCHOOLS, INDIVIDUALIZED TRAINING (U)

THE STUDY INVOLVED THE DESIGN, DEVELOPMENT AND PROTOTYPE IMPLEMENTATION OF A COMPUTERIZED MANAGEMENT SYSTEM AS A SUBCOMPONENT OF THE FLORIDA STATE UNIVERSITY'S PROPOSED MODEL FOR TRAINING ELEMENTARY TEACHERS. THE PROBLEMS EXAMINED DURING THIS INVESTIGATION CONSISTED OF THE DEVELOPMENT OF A DATA ACQUISITION AND INSTRUCTIONAL SYSTEM (1) TO COLLECT RELIABLE DATA TO ASSESS THE MANAGEMENT SYSTEM'S ACTUAL PERFORMANCE AND ITS ACCEPTABILITY BY THE TRAINEES, (2) TO MANAGE A VARIETY OF AVAILABLE RESOURCES, (3) TO SCHEDULE TRAINEES' ACTIVITIES, AND (4) TO MONITOR EACH TRAINEE'S PROGRESS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-709 960 S/1 S/2
DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
MANAGEMENT INFORMATION SYSTEMS. VOLUME I. (U)
DESCRIPTIVE NOTE: REPORT BIBLIOGRAPHY MAY 44-OCT 69.
APR 70 28.P
REPT. NO. DDC-TAS-70-43-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 2, AD-866 650.

DESCRIPTORS: (*MANAGEMENT CONTROL SYSTEMS, *BIBLIOGRAPHIES), INFORMATION RETRIEVAL, MANAGEMENT PLANNING, DECISION PLANNING, TIME SHARING, DIGITAL COMPUTERS, MAN-MACHINE SYSTEMS, LOGISTICS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, INFORMATION PROCESSING, USER ORIENTED COMPUTER SYSTEMS, ANNOTATED BIBLIOGRAPHIES (U)

THE BIBLIOGRAPHY CONTAINS ANNOTATED REFERENCES TO THE ASPECTS OF THE MANAGEMENT INFORMATION SYSTEMS AVAILABLE IN THE DEFENSE DOCUMENTATION CENTER'S DATA BANK. CORPORATE AUTHOR-MONITORING AGENCY, SUBJECT, AND PERSONAL AUTHOR INDEXES ARE INCLUDEDIN THIS BIBLIOGRAPHY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-705 121 1/2 1/5
INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA URBAN MASS TRANSPORTATION PROJECT
A SURVEY AND ASSESSMENT OF AIR TRAVEL FORECASTING. (U)
DESCRIPTIVE NOTE: RESEARCH PAPER,
APR 70 43P KIERNAN,JANET D. ;
REPT. NO. RP-P-540
CONTRACT: DAHC15-67-C-0011, DOT-OT-40(IAA)
PROJ: ARPA-T-70
MONITOR: IDA/HQ 69-10640

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR TRANSPORTATION, PREDICTIONS), (*AIRPORTS, MANAGEMENT PLANNING), ACCURACY, REVIEWS, AIR TRAFFIC (U)
IDENTIFIERS: FORECASTING (U)

THE REPORT ANALYZES, HISTORICALLY, THE FAA FORECASTING EFFORT; IT ALSO SURVEYS AS A BASIS OF COMPARISON THE RELEVANT PARALLEL WORK OF OTHER AGENCIES AND ORGANIZATIONS. THE STUDY ANALYZES THE METHODOLOGIES AND ACCURACIES OF EACH OF THE VARIOUS FORECASTS AND COMPARES THEM FOR CONSISTENCY. THE PURPOSE OF THE STUDY IS TO PROVIDE INFORMATION ON FUTURE AIR TRAVEL DEMAND AS WELL AS SOME INSIGHTS INTO THE STATUS AND ACCURACY OF AIR TRAVEL FORECASTING AS IT MIGHT PERTAIN TO REQUIREMENTS FOR AIRPORT AND AIR TERMINAL CAPACITIES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-705 500 15/3 5/1
DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
CIVIL DEFENSE SYSTEMS: SOCIAL IMPACT AND MANAGEMENT PLANNING. VOLUME I. (U)
DESCRIPTIVE NOTE: REPORT BIBLIOGRAPHY AUG 60-OCT 69.
MAY 70 157P
REPT. NO. DDC-TAS-70-45-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 2, AD-866 900.

DESCRIPTORS: (*CIVIL DEFENSE SYSTEMS, BIBLIOGRAPHIES), (*MANAGEMENT PLANNING, CIVIL DEFENSE SYSTEMS), MANAGEMENT PLANNING, ATTITUDES, PUBLIC OPINION, MANPOWER, ECONOMICS, TRAINING, RADIOACTIVE FALLOUT, SHELTERS, CIVIL DEFENSE PERSONNEL (U)

THIS BIBLIOGRAPHY IS VOLUME I OF A TWO-VOLUME SET OF REFERENCES ON CIVIL DEFENSE SYSTEMS: SOCIAL IMPACT AND MANAGEMENT PLANNING. DOCUMENTS CONTAINED IN THIS VOLUME PERTAIN TO MANAGEMENT TRAINING, PUBLIC OPINION, SOCIAL IMPACT, AND PSYCHOLOGICAL EFFECTS. COMPUTER-GENERATED INDEXES OF CORPORATE AUTHOR-MONITORING AGENCY, SUBJECT, AND CONTRACT ARE PROVIDED. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-705 311 15/5
GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS
A METHODOLOGY FOR ESTIMATING EXPECTED USAGE OF REPAIR PARTS, WITH NO USAGE HISTORY. (U)
APR 70 29P HABER,SHELDON E. ;
SITGREAVES,ROSEDITH ;
REPT. NO. SERIAL-T-253-REV
CONTRACT: N00014-67-A-0214
PROJ: NR-347 020

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPERSEDES REPORT DATED 3 OCT 69. AD-697 311.

DESCRIPTORS: (*NAVAL EQUIPMENT, *SPARE PARTS), (*INVENTORY, MATHEMATICAL PREDICTION), MILITARY REQUIREMENTS, STOCK LEVEL CONTROL, MATHEMATICAL MODELS, MANAGEMENT PLANNING, STATISTICAL PROCESSES, DISTRIBUTION FUNCTIONS (U)
IDENTIFIERS: DEMAND(ECONOMICS), USAGE ESTIMATION, INVENTORY MODELS (U)

IN THE PAPER A MODEL IS PRESENTED WHICH FOCUSES ON THE PROBLEM OF PREDICTING DEMANDS FOR ITEMS WITH EXTREMELY LOW USAGE RATES. THESE FORM THE BULK OF REPAIR PARTS IN MILITARY SYSTEMS. THE BASIC NOTION UNDERLYING THE MODEL IS THE POOLING OF USAGE DATA FOR COMMON DESIGN ITEMS WITH MOVEMENT FOR THE PURPOSE OF ESTIMATING USAGE RATES FOR SIMILAR ITEMS WHICH HAVE SHOWN NO MOVEMENT. A UNIQUE FEATURE OF THE MODEL IS THAT IT ALSO MAKES POSSIBLE THE ESTIMATION OF USAGE RATES FOR ITEMS NEWLY INTRODUCED INTO A SYSTEM FOR WHICH NO PREVIOUS USAGE HISTORY IS AVAILABLE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-705 541 5/1 13/2
RAND CORP SANTA MONICA CALIF
A CASE STUDY IN URBAN DEVELOPMENT: FROM 'FACTORY TOWN' TO BALANCED COMMUNITY. (U)
APR 70 29P SAVAGE,E. J. ;
REPT. NO. P-4345

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT CALIFORNIA UNIV., GRADUATE SCHOOL OF PUBLIC ADMINISTRATION, BERKELEY, MAY 67.

DESCRIPTORS: (*URBAN PLANNING, *CALIFORNIA), MANAGEMENT PLANNING, REVIEWS, ADVANCED PLANNING, INDUSTRIES (U)
IDENTIFIERS: *AREA PLANNING AND DEVELOPMENT, RICHMOND(CALIFORNIA) (U)

THE PAPER ATTEMPTS TO ANALYZE AND ASSESS RICHMOND'S FUTURE PROSPECTS FOR SUCCESSFUL GROWTH AS A WELL BALANCED CALIFORNIA COMMUNITY. THE ANALYSIS IS CONSTRUED IN THE LIGHT OF RICHMOND'S HISTORY AS WELL AS ITS PRESENT POLITICAL, ECONOMIC AND SOCIAL REALITIES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-703 543 13/2
RAND CORP SANTA MONICA CALIF
THE ADVISORY COMMISSION ON INTERGOVERNMENTAL
RELATIONS--A DATA BASE FOR URBAN PLANNERS. (U)
APR 70 24P SAVAGE,E. J. ;
REPT. NO. P-4346

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT A MEETING OF THE
AMERICAN SOCIETY FOR PUBLIC ADMINISTRATION,
BERKELEY, CALIF., FEB 67.

DESCRIPTORS: (*URBAN PLANNING, ORGANIZATIONS),
MANAGEMENT PLANNING, MONEY, URBAN AREAS (U)
IDENTIFIERS: *ACIR(ADVISORY COMMISSION ON
INTERGOVERNMENTAL RELATIONS), *ADVISORY
COMMISSION ON INTERGOVERNMENTAL RELATIONS, STATE
GOVERNMENTS (U)

ONE INSTITUTION THAT HAS BEEN SUCCESSFUL IN
ENGENDERING INTER-LEVEL COOPERATION IN OUR FEDERAL
SYSTEM IS THE ADVISORY COMMISSION ON
INTERGOVERNMENTAL RELATIONS (ACIR). THE
PAPER EXAMINES ACIR FROM THE STANDPOINT OF (1)
ORIGIN, (2) STRUCTURAL COMPOSITION, AND (3)
INTERESTS AND ACCOMPLISHMENTS. INTERWOVEN IS A
CONSIDERATION OF ACIR'S UNIQUE FEATURES, INCLUDING
ITS POLICY ROLE AND AN ANALYSIS OF ACIR LITERATURE
ON GOVERNMENT REORGANIZATION IN METROPOLITAN AREAS.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKO

AD-705 702 5/1
STANFORD RESEARCH INST MENLO PARK CALIF
CRITERIA FOR THE DESIGN OF NEW FORMS OF
ORGANIZATION. (U)
DESCRIPTIVE NOTE: FINAL REPT. 1 DEC 66-28 FEB 70,
FEB 70 159P VOLLMER,HOWARD M. ;
MCPHERSON,JOSEPH W. ;
CONTRACT: F44620-67-C-0039
PROJ: AF-9779
MONITOR: AFOSR 70-0947TR

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORGANIZATIONS, EXPERIMENTAL
DESIGN), (*MANAGEMENT ENGINEERING, STANDARDS),
THEORY, BEHAVIOR, ANALYSIS OF VARIANCE,
TRANSFORMATIONS, PERSONNEL MANAGEMENT,
INTERACTIONS, LEADERSHIP, GROUP DYNAMICS (U)
IDENTIFIERS: INNOVATION(TECHNOLOGY),
*MANAGEMENT INFORMATION SYSTEMS (U)

CRITERIA AND GUIDELINES WERE DEVELOPED FOR MANAGERS
AND CONSULTANTS INVOLVED IN THE DESIGN OF INNOVATIVE
KINDS OF ORGANIZATION IN GOVERNMENT OR PRIVATE
SETTINGS. BASED UPON CASE STUDIES OF MAJOR DESIGN
EFFORTS IN A VARIETY OF FEDERAL GOVERNMENT AND
PRIVATE ORGANIZATIONS. THESE CRITERIA AND
GUIDELINES ARE FORMULATED IN TERMS OF A GENERAL
SYSTEMS APPROACH TO ORGANIZATIONAL DESIGN, RATHER
THAN A MORE LIMITED ENGINEERING OR BEHAVIORAL
APPROACH. THE SYSTEMS APPROACH CONSIDERS THE
INTERACTIONS OF A NUMBER 990F (1) PROCESS
VARIABLES, (2) EXTERNAL VIEWING VARIABLES, AND
(3) INTERNAL VIEWING VARIABLES IN ORGANIZATIONAL
SYSTEMS. PARTICULAR ATTENTION IS GIVEN TO THE
DESIGN OF ORGANIZATIONAL ENTITIES THAT ACCOMMODATE TO
THE NEEDS, VALUES AND ASPIRATIONS OF INDIVIDUALS
AND GROUPS INVOLVED IN THESE ENTITIES.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-706 043 5/5 5/10
MATRIX RESEARCH CO ALEXANDRIA VA AREA SYSTEMS DIV
PLANNING THE MAN/ENVIRONMENT INTERACTION. (U)
DESCRIPTIVE NOTE: FINAL REPT. 30 APR 69-30 APR 70,
APR 70 317P CAMPBELL,ROBERT D. ;
SCHLESINGER,LAWRENCE ;SCHUCHMAN,BETTY JANE ;
CONTRACT: N00014-69-C-0290
PROJ: NR-171-813

UNCLASSIFIED REPORT

DESCRIPTORS: (*HUMANS, ENVIRONMENT), (*ECOLOGY, INTERACTIONS), NAVAL SHORE ESTABLISHMENTS, MANAGEMENT PLANNING, BEHAVIOR, FACTOR ANALYSIS, MODELS(SIMULATIONS), QUESTIONNAIRES, NAVAL RESEARCH, DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: *MAN ENVIRONMENT INTERACTIONS (U)

THE PURPOSE OF THE RESEARCH HAS BEEN TO BEGIN TO DEVELOP A MODEL OF THE ENVIRONMENT-MAN RELATIONSHIP, THE FOCUS AND INTEGRATING FORCE OF WHICH IS HUMAN GROWTH AND DEVELOPMENT. THE MODEL IS TO RELATE TO THE QUALITY OF LIVING SUPPORTED BY THE ENVIRONMENT OF A NAVAL BASE. IT IS BASED ON PRINCIPLES OF MAN-ENVIRONMENT RELATIONSHIPS AS THESE ARE GUIDES TO ENVIRONMENTAL DESIGN. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY - SEARCH CONTROL NO. /ZAHK6

AD-706 086 5/1 15/5
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
OPERATIONS ANALYSIS OFFICE
PREDICTIVE TECHNIQUES STUDY. PHASE I.
COMPARISON OF SOME FORECAST METHODS. (U)
DESCRIPTIVE NOTE: OPERATIONS ANALYSIS REPT.,
MAY 70 20SP LUM,M. D. ;BLAIR,L. L. ;
STUART,J. R. ;
REPT. NO. OAR-10

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE LOGISTICS COMMAND, *MANAGEMENT PLANNING), (*AIR FORCE EQUIPMENT, MAINTAINABILITY), (*INVENTORY CONTROL, *MATHEMATICAL PREDICTION), STOCK LEVEL CONTROL, LIFE EXPECTANCY, REPLACEMENT THEORY, MILITARY REQUIREMENTS, SPARE PARTS, LEAD TIME, MATHEMATICAL MODELS, STATISTICAL ANALYSIS, EFFECTIVENESS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, *SUPPLY MANAGEMENT (U)

THE REPORT DISCUSSES THE RESULTS OF THE RESEARCH PERFORMED ON PHASE I OF THE PREDICTIVE TECHNIQUES STUDY. PHASE I CONSISTED OF A SHORT-TERM EFFORT TO OBTAIN INDICATIONS WHETHER SINGLE OR DOUBLE EXPONENTIAL SMOOTHING, DOUBLE MOVING AVERAGE, OR MOVING LEAST SQUARES ARE MORE ACCURATE THAN SINGLE MOVING AVERAGE FOR FORECASTING. PHASE I DEALT ONLY WITH COMPUTER GENERATED ARTIFICIAL 'DEMAND PATTERNS'; THIRTY-NINE RUNS WERE MADE ON VARIOUS DEMAND PATTERNS, AND THE ALTERNATIVE FORECAST METHODS EVALUATED FOR EACH RUN. A UNIQUE FEATURE IS THAT VARYING FORECAST LEAD TIMES ARE TAKEN INTO ACCOUNT (SHORT-TERM VS. MEDIUM-TERM VS. LONG-TERM). OTHER PARAMETERS BEING VARIED INCLUDE: THE EXPONENTIAL SMOOTHING CONSTANT ALPHA, MEAN DEMAND, VARIANCE OF DEMAND (RANDOM) FLUCTUATION, SLOPE OF TREND WHEN APPLICABLE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-706 382 5/9
MATRIX RESEARCH CO ALEXANDRIA VA
GUIDE FOR CONDUCTING PERSONNEL AND TRAINING RESEARCH
IN SUPPORT OF ADVANCED SHIP PROGRAMS. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
MAY 70 394P CONDON,CHARLES F. M. ;
HAYES,JOHN F. ;TURNER,W. STEPHEN ;WALDER,
GEORGE L. ;
CONTRACT: N00022-69-C-0115
MONITOR: NAVPERS-PRD PTB-70-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONNEL MANAGEMENT, HANDBOOKS),
(*INDUSTRIAL TRAINING, HANDBOOKS), MANAGEMENT
PLANNING, SCIENTIFIC RESEARCH, ADVANCED PLANNING,
FRIGATES, DESTROYERS (U)
IDENTIFIERS: SHIPBUILDING (U)

THE REPORT SUMMARIZES THE RESULTS OF STUDIES
CONDUCTED TO DETERMINE PERSONNEL AND TRAINING
RESEARCH REQUIREMENTS TO SUPPORT NAVY ADVANCED
SHIPBUILDING PROGRAMS. INCLUDED IS A
DESCRIPTION OF AN 8-PHASE CONSTRUCT OF SHIP
DEVELOPMENT, AN OUTLINE OF PERSONNEL AND TRAINING
RESEARCH TASKS TO BE PERFORMED DURING EACH OF THESE 8
PHASES IN CONJUNCTION WITH OTHER PROJECT ACTIVITIES,
AND A GUIDE OF PROCEDURES RECOMMENDED FOR
CONDUCTING THESE RESEARCH TASKS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-700 409 9/2 5/7 5/1
RAND CORP SANTA MONICA CALIF
THE MIND SYSTEM: A GRAMMAR-RULE LANGUAGE. (U)
APR 70 79P KAPLAN,RONALD M. ;
REPT. NO. RM-6265/1-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING, INFORMATION RETRIEVAL), (*PROGRAMMING LANGUAGES, *GRAMMARS), SYNTAX, COMPUTATIONAL LINGUISTICS, ENGLISH LANGUAGE, SEMANTICS, MATHEMATICAL LOGIC (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, MIND(MANAGEMENT OF INFORMATION THROUGH NATURAL DISCOURSE), MANAGEMENT OF INFORMATION THROUGH NATURAL DISCOURSE (U)

THE PAPER GIVES A DESCRIPTION OF THE MIND GRAMMAR-RULE LANGUAGE (MGRL), INCLUDING PARSING PROCEDURE AND GRAMMAR RULES. MGRL IS THE FORMALISM FOR THE GRAMMAR INPUT TO THE MIND SYNTACTIC ANALYSIS COMPONENT, CURRENTLY BEING PROGRAMMED FOR THE IBM 360/65. MIND (MANAGEMENT OF INFORMATION THROUGH NATURAL DISCOURSE) IS A SYSTEM CONSISTING OF NESTED AND CHAINED MODULES OF HIGH-LEVEL PROGRAMMING LANGUAGE STATEMENTS DESIGNED TO MEET THE NEED FOR FAST AND ACCURATE INFORMATION TRANSACTIONS BETWEEN SENIOR COMMAND, CONTROL, AND POLICYMAKING PERSONNEL OF THE AIR FORCE AND OTHER SERVICES, AND LARGE, HETEROGENEOUS, LOOSELY FORMATTED INFORMATION BANKS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKO

AD-706 952 5/1 5/11
RAND CORP SANTA MONICA CALIF
SOCIAL SCIENCE METAPOLICY. SOME CONCEPTS AND APPLICATIONS. (U)
MAY 70 10P DROR,YEHEZKEL ;
REPT. NO. P-4372

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE INTERNATIONAL SOCIAL SCIENCE COUNCIL CONFERENCE ON SOCIAL SCIENCE POLICY, PARIS, 13-17 APR 70. PREPARED IN COOPERATION WITH HEBREW UNIV., JERUSALEM (ISRAEL).

DESCRIPTORS: (*SOCIAL SCIENCES, MANAGEMENT PLANNING); (*DECISION MAKING, EFFECTIVENESS), THEORY, MATHEMATICAL PREDICTION, FEEDBACK, ORGANIZATIONS, MANPOWER STUDIES, LEADERSHIP, DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: *POLICYMAKING, OBJECTIVES, *MANAGEMENT INFORMATION SYSTEMS (U)

THE PAPER IS BASED ON THEORETIC WORK ON THE IMPROVEMENT OF POLICYMAKING, ON THE INTEGRATION OF SOCIAL SCIENCE INTO POLICYMAKING, AND ON RELATIONS BETWEEN SOCIAL SCIENCE AND ANALYTICAL DECISION APPROACHES, EMPIRICALLY AND EXPERIMENTALLY. IT IS BASED ON SOME SURVEYS OF APPLIED SOCIAL SCIENCE ENDEAVORS AND ON PARTICIPANT OBSERVATIONS IN POLICY RESEARCH, PUTTING SOCIAL SCIENCE INTO POLICY ANALYSIS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-706 965 1777
DEPARTMENT OF TRANSPORTATION WASHINGTON D C
DEPARTMENT OF TRANSPORTATION NATIONAL PLAN FOR
NAVIGATION. (U)
MAY 70 34P

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVIGATION, MANAGEMENT PLANNING),
UNITED STATES GOVERNMENT, CIVIL AVIATION,
WATER TRAFFIC, AIR TRAFFIC, RADIO NAVIGATION,
RADIO EQUIPMENT (U)
IDENTIFIERS: DEPARTMENT OF TRANSPORTATION,
*GOVERNMENT POLICIES (U)

A PLAN FOR THE OPERATION, DEVELOPMENT AND IMPLEMENTATION OF EXISTING AND POSSIBLE FUTURE NAVIGATION SYSTEMS FOR CIVIL AVIATION AND MARITIME REQUIREMENTS IS PRESENTED. AREAS OF AIR AND MARINE COMMONALITY ARE DISCUSSED WITH THE OBJECTIVE OF MINIMIZING THE NUMBER OF RADIONAVIGATION AIDS. SPECIFIC FEDERAL AVIATION ADMINISTRATION AND COAST GUARD PROGRAMS FOR RESEARCH AND DEVELOPMENT OF NAVIGATION SYSTEMS, AND AN OPERATING PLAN INTO THE 1980' ARE DESCRIBED. SPECIAL EMPHASIS IS PLACED ON LONG DISTANCE AIR NAVIGATION AND HIGH SEAS MARINE NAVIGATION. TYPICAL OF NAVIGATION SYSTEMS CONSIDERED ARE INERTIAL, LORAN, OMEGA AND SATELLITE. NEW STATEMENTS OF POLICY IN REGARD TO LONG DISTANCE NAVIGATION AIDS ARE PROPOSED TO REPLACE THE CURRENT U.S. POLICY ADOPTED BY THE AIR COORDINATING COMMITTEE ON 23 DECEMBER 1958. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKO

AD-707 063 9/2 5/1
TRACOR INC AUSTIN TEX
RESEARCH IN SEMIOTIC SYSTEMS. (U)
DESCRIPTIVE NOTE: FINAL REPT. APR 67-APR 70,
APR 70 44P ZIEHE,THEODORE V. ;
REPT. NO. TRACOR-T70/AD-7243-U
CONTRACT: N00014-67-C-0396
PROJ: TRACOR-007-001-01

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, LANGUAGE),
(*INFORMATION RETRIEVAL, MANAGEMENT PLANNING),
PROGRAMMING LANGUAGES, DATA STORAGE SYSTEMS,
RECORDS, FACTOR ANALYSIS (U)
IDENTIFIERS: *SEMIOTICS, *INFORMATION SYSTEMS (U)

THE REPORT DOCUMENTS A RESEARCH EFFORT REGARDING
THE ARCHITECTURE OF COMPUTER-BASED SEMIOTIC SYSTEMS.
IT SKETCHES THE CONCEPT OF A COMPUTER-BASED
SEMIOTIC SYSTEM AND BRIEFLY DESCRIBES WORK DONE IN
TWO TECHNICAL AREAS IMPORTANT TO SUCH SYSTEMS--DATA
MANAGEMENT AND PROCESS MANAGEMENT. A SOFTWARE BASE
UPON WHICH TO CONSTRUCT A SEMIOTIC SYSTEM IS BEING
IMPLEMENTED. THAT BASE IS ALSO DESCRIBED.
FINALLY, THE REPORT OUTLINES SEVERAL AREAS OF
FUTURE WORK SUGGESTED BY THE PROGRESS MADE TO DATE.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-707 065 5/9 9/2
FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER
THE ROLE OF COMPUTERS IN EDUCATION DURING THE 70'S. (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.,
MAY 70 20P HANSEN,DUNCAN N. ;
REPT. NO. CAI-TM-15
CONTRACT: N00014-68-A-0494
PROJ: NR-154-280

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, MANAGEMENT PLANNING), (*TEACHING METHODS, *PROGRAMMING(COMPUTERS)), PROGRAMMED INSTRUCTION, PERSONNEL MANAGEMENT, ADAPTIVE SYSTEMS, INFORMATION RETRIEVAL, INSTRUCTORS, TRAINING (U)
IDENTIFIERS: *COMPUTER AIDED INSTRUCTION, MANAGEMENT INFORMATION SYSTEMS, INDIVIDUALIZED TRAINING (U)

THE CONCEPT OF AN INFORMATION MANAGEMENT SYSTEM IS PRESENTED IN ORDER THAT THE MAJOR EDUCATIONAL FUNCTIONS CAN BE CONCEPTIONALLY AND OPERATIONALLY INTEGRATED WITHIN ONE COMPUTER CENTER DURING THE SEVENTIES. THESE MAJOR INFORMATIONAL FUNCTIONS INCLUDE: (1) INFORMATION RETRIEVAL OF ADMINISTRATIVE DATA, (2) SCIENTIFIC COMPUTING, AND (3) COMPUTER SUPPORTED INSTRUCTION VIA COMPUTER-MANAGED INSTRUCTION, COMPUTER-ASSISTED INSTRUCTION, AND LEARNING SIMULATION. THE PRIMARY NEED FOR MORE SOPHISTICATED TRAINING OF PROFESSIONAL STAFF AND SUPPORT FOR PERSONNEL WITHIN EDUCATIONAL INSTITUTIONS IS DISCUSSED IN GREAT DETAIL. THE PAPER CONCLUDES WITH AN ECONOMIC ANALYSIS OF SOME OF THE COMPUTER ALTERNATIVES OPENED FOR SUPPORT OF INSTRUCTION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-707 097 5/1 12/2 15/3
RAND CORP SANTA MONICA CALIF
PPBS, SUBOPTIMIZATION, AND DECENTRALIZATION. (U)

APR 70 36P SMITHIES,ARTHUR
REPT. NO. RM-6176-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE, BUDGETS), (*MANAGEMENT PLANNING, DECISION MAKING), OPTIMIZATION, MATHEMATICAL MODELS, COST EFFECTIVENESS, STANDARDS, FACTOR ANALYSIS, OPERATIONS RESEARCH (U)
IDENTIFIERS: DECENTRALIZATION, *PLANNING PROGRAMMING AND BUDGETING SYSTEMS, SUBOPTIMIZATION, *MANAGEMENT INFORMATION SYSTEMS (U)

A THEORETICAL DISCUSSION IS PRESENTED OF SUBOPTIMIZATION AND DECENTRALIZATION TO CONSIDER THE APPROPRIATENESS OF VARIOUS FINANCIAL CONTROLS, CONSTRAINTS, AND INCENTIVES IN MILITARY PLANNING. THE ANALYSIS IS APPLIED TO VARIOUS ALTERNATIVE FORMS OF ORGANIZATION IN THE DEPARTMENT OF DEFENSE: DECENTRALIZATION BY SERVICES, BY SERVICE AND PROGRAM, AND BY SERVICES WITH SOME REALLOCATION OF FUNCTIONS; DECENTRALIZATION BY THEATER; FULL UNIFICATION; AND DECENTRALIZATION BY STRENGTHENING THE CENTRAL CONTROLS OF THE PRESENT SYSTEM. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKA

AD-707 461 8/6 5/1
CHICAGO UNIV ILL CENTER FOR URBAN STUDIES
COMMUNITY GOALS - MANAGEMENT OPPORTUNITIES: AN
APPROACH TO FLOOD PLAIN MANAGEMENT. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
MAY 70 257P SHEAFFER,JOHN R. ;DAVIS,
GEORGE A. ;RICHMOND,ALAN P. ;
CONTRACT: DACW31-68-C-0043
MONITOR: IWR 70-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH THE
NORTH CAROLINA STATE UNIV., RALEIGH.

DESCRIPTORS: (*WATER SUPPLIES, URBAN AREAS),
(*TERRAIN, MANAGEMENT PLANNING), (*FLOODS,
CONTROL SYSTEMS), URBAN PLANNING, PUBLIC
OPINION, DECISION MAKING, MODELS(SIMULATIONS),
FACTOR ANALYSIS, ECONOMICS, RECREATION,
EMPLOYMENT, ORGANIZATIONS, GEORGIA, IOWA,
MICHIGAN, NEBRASKA (U)
IDENTIFIERS: FLOOD PLAINS, *FLOOD CONTROL (U)

THE PUBLICATION PRESENTS A METHODOLOGY FOR
ESTIMATING FIRST-ROUND LOCAL EFFECTS RELATED TO THE
CHANGE IN THE AVAILABILITY OF WATER FOR SUPPLY
PURPOSES OR RECREATION. IT DEVELOPES ESTIMATES OF
DEMAND FOR RESERVOIR RECREATION AND ESTIMATES THE
CHANGE IN STRUCTURAL UNEMPLOYMENT RESULTING FROM
CHANGES IN OUTPUT. IT EVALUATES THE DIFFERENCES IN
REGIONAL MULTIPLIER VALUES AND PROPOSE A REFINEMENT
IN REGIONAL MULTIPLIER ESTIMATES; IT INTEGRATES THE
VARIOUS RESEARCH PAPERS AND PRESENTS A CASE FOR A
SELECTED STRATEGY FOR ESTIMATING THOSE NATIONAL
INCOME BENEFITS TO WATER RESOURCE DEVELOPMENT IN
EXCESS OF DIRECT OUTPUT VALUED IN TERMS OF THE USERS
WILLINGNESS TO PAY. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-707 636 5/1
RAND CORP SANTA MONICA CALIF
STRATEGIES FOR ADMINISTRATIVE REFORM. (U)
JUN 70 26P DROR,YEHEZKEL ;
REPT. NO. P-4382

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING, TRANSFORMATIONS), (*DECISION MAKING, REVIEWS), SEQUENCES, PROBABILITY, EXPERIMENTAL DESIGN, ADVANCED PLANNING, THEORY, PERFORMANCE(HUMAN) (U)
IDENTIFIERS: *ADMINISTRATIVE REFORM, OBJECTIVES (U)

'STRATEGIES' CONSTITUTE AN IMPORTANT DIMENSION OF ADMINISTRATIVE REFORMS. IN THE SENSE OF OVERALL GUIDELINES OR 'MEGA-POLICIES,' STRATEGIES PROVIDE A FRAMEWORK BOTH FOR BEHAVIORAL ANALYSIS OF HISTORIC ADMINISTRATIVE REFORMS AND FOR PRESCRIPTIONS ON HOW TO IMPROVE FUTURE ADMINISTRATIVE REFORMS. MAIN ADMINISTRATIVE STRATEGY DIMENSIONS FOR CONSIDERATION AND DECISION ARE DISCUSSED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-707 725 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
A PILOT SYSTEM TO IMPROVE PREDICTION PARAMETERS AT A
NAVAL AIR REWORK FACILITY AND TO COMPARE PLANS WITH
PERFORMANCE. (U)
FEB 70 112P
REPT. NO. LMI-69-12
CONTRACT: SD-271
PROJ: SD-271-104

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, LOGISTICS),
(*NAVAL RESEARCH, DATA PROCESSING SYSTEMS),
MATHEMATICAL PREDICTION, NAVAL AIR STATIONS,
PROGRAMMING(COMPUTERS), CORRELATION TECHNIQUES,
MAINTENANCE, PERSONNEL MANAGEMENT, NAVAL
PROCUREMENT, ORGANIZATIONS, SCHEDULING (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, MANAGEMENT
INFORMATION SYSTEMS, *WORKLOAD FORECASTS (U)

THE REPORT DESCRIBES A COMPUTER-BASED SYSTEM
DESIGNED TO IMPROVE WORKLOAD FORECASTS AT A NAVAL
AIR REWORK FACILITY (NARF). THIS SYSTEM COMPARES
WORKLOAD FORECASTS WITH ACTUAL PERFORMANCE AND
UTILIZES EXPONENTIALLY SMOOTHED PERFORMANCE DATA TO
IMPROVE FUTURE WORKLOAD FORECASTS. IT SUPPLEMENTS
AN OPERATIONAL WORKLOAD FORECAST SYSTEM PREVIOUSLY
DEVELOPED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-707 731 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
DOD-CONTRACTOR RELATIONSHIP--PRELIMINARY
REVIEW. (U)
MAR 70 91P
REPT. NO. LMI-69-21
CONTRACT: SD-271

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE,
LOGISTICS), (*CONTRACTS, MANAGEMENT PLANNING),
WEAPON SYSTEMS, INDUSTRIAL RELATIONS, FRICTION,
PROBLEM SOLVING, COSTS, TIME (U)
IDENTIFIERS: LOGISTICS MANAGEMENT, MANAGEMENT
INFORMATION SYSTEMS (U)

THE STUDY WAS A PRELIMINARY INVESTIGATION TO DEFINE
THE SCOPE OF THE BASIC PROBLEMS IN THE DOD-
INDUSTRY INTERFACE. THE RESULTS OF THE STUDY APPLY
TO THE DEFENSE-INDUSTRY RELATIONSHIP WHICH HAS BEEN
MARKED BY DISCORD AND CONTROVERSY; PROBLEMS WHICH
HAVE RESULTED IN CONFUSION IN THEORY AND PRACTICE;
AND THE INCREASE IN THE TECHNOLOGICAL COMPLEXITY OF
WEAPON SYSTEMS WHICH CAUSES ACQUISITION MANAGEMENT TO
BECOME MORE DIFFICULT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-707 732 15/5 5/1
LOGISTICS MANAGEMENT INST WASHINGTON D C
EXPLORATORY STUDY OF SUBCONTRACTOR PROPOSAL
COSTS. (U)
APR 70 22P
REPT. NO. LMI-70-10
CONTRACT: SD-271
PROJ: SD-271-127

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE, LOGISTICS), (*CONTRACTS, COST EFFECTIVENESS), WEAPON SYSTEMS, FEASIBILITY STUDIES, GOVERNMENT PROCUREMENT, PROBLEM SOLVING, MANAGEMENT PLANNING (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, MANAGEMENT INFORMATION SYSTEMS, *MULTIPLE SUBCONTRACTOR PROPOSALS, SUBCONTRACTING, COMPETITION (U)

THE STUDY WAS INITIATED TO DETERMINE WHETHER ONE FACET OF BID AND PROPOSAL EFFORT ON MAJOR WEAPON SYSTEMS ACQUISITION -- THE SUBMISSION OF COMPLEX PROPOSALS BY PRINCIPAL SUBCONTRACTORS TO SEVERAL PRIME CONTRACT COMPETITORS -- WAS UNDULY BURDENSOME AND COSTLY. THE PRIMARY SOURCE OF INFORMATION WAS INTERVIEWS WITH DEFENSE INDUSTRY REPRESENTATIVES. IT WAS FOUND THAT SUBMISSION OF MULTIPLE PROPOSALS BY MAJOR SUBCONTRACTORS DID NOT APPEAR A FREQUENT OCCURRENCE. SUBCONTRACTORS, HOWEVER, AND DID SUBMIT MULTIPLE PROPOSALS FOUND THEIR EFFORTS CHARACTERIZED BY PEAK DEMANDS FOR TECHNICAL TALENT AND OVERHEAD FUNDS. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-707 851 15/5
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
OPERATIONS ANALYSIS OFFICE
PROJECT ABLE AND PARALLEL DEVELOPMENT. (U)
DESCRIPTIVE NOTE: OPERATIONS ANALYSIS REPT.,
MAY 70 10P KATZ,IRVING ;
REPT. NO. OAR-8-SUPPL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT NO. 2 TO REPORT DATED JAN 70, AD-700 986.

DESCRIPTORS: (*AIR FORCE PROCUREMENT, *MANAGEMENT ENGINEERING), CONTRACTS, COSTS, WEAPON SYSTEMS, DECISION MAKING, AIR FORCE BUDGETS (U)
IDENTIFIERS: ABLE PROJECT, LOGISTICS MANAGEMENT, TRADEOFFS (U)

AN ADAPTATION OF PROJECT ABLE IS PRESENTED WHICH IS TAILORED FOR SYSTEMS DEVELOPED THROUGH PARALLEL PROTOTYPES. IN THIS APPROACH, THE EXPLICIT QUANTIFICATION OF THE 'LOGISTIC EFFECTS' OF THE DEVELOPMENT IS DEFERRED UNTIL THE PROTOTYPES HAVE BEEN DEVELOPED AND TESTED AND THE PRODUCTION CONTRACT IS BEING PROCESSED. THE MOTIVATION TO CONSIDER LOGISTICS DURING DESIGN IS NEVERTHELESS EMPHASIZED. IT IS ACCOMPLISHED BY MAKING IT CLEAR TO THE DEVELOPERS THAT IN THE SELECTION OF A PRODUCTION SOURCE THERE WILL BE SUBSTANTIAL EMPHASIS ON THE CALCULATION OF LIFE CYCLE COSTS. THESE WILL INCLUDE THE PREDICTION AND SUBSEQUENT VERIFICATION OF 'LOGISTIC EFFECTS'' AND WILL BE ASSESSED DURING SOURCE SELECTION THROUGH USE OF DATA ACQUIRED FROM TESTING OF THE PROTOTYPES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKB

AD-708 019 5/10 13/6 5/1
INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA URBAN MASS TRANSPORTATION PROJECT
RESERVED LANES FOR BUSES: THE SHIRLEY HIGHWAY EXPERIMENT. (U)
DESCRIPTIVE NOTE: RESEARCH PAPER,
APR 70 54P TAYLOR,JEAN G. ;
REPT. NO. RP-P-618
CONTRACT: DAHC15-67-C-0011, DOT-OT-43(1AA)
PROJ: ARPA-T-70
MONITOR: IDA/HQ 70-1;363

UNCLASSIFIED REPORT

DESCRIPTORS: (*URBAN AREAS, ROADS), (*TRAFFIC, *MANAGEMENT PLANNING), (*MOTOR VEHICLE OPERATORS, REACTION(PSYCHOLOGY)), URBAN PLANNING, PASSENGER VEHICLES, CONTROL SYSTEMS (U)
IDENTIFIERS: *RESERVED TRAFFIC LANES, *SHIRLEY HIGHWAY EXPERIMENT, TRANSPORTATION PLANNING, BUS TRANSPORTATION, *RESERVED BUS LANES, CAR POOLS (U)

THE PAPER PROVIDES AN INITIAL EXAMINATION OF THE SHIRLEY HIGHWAY EXPERIMENT AND ADDRESSES SPECIFIC ASPECTS OF THE BUS PROJECT. IN THE SHORT TIME AVAILABLE FOR THE STUDY, EXPERIMENTS, MEASUREMENTS AND EVALUATIONS WERE OUTLINED AND DESCRIBED IN THE DETAIL POSSIBLE. THESE MAINLY CONCERN (1) POTENTIAL REACTION OF AUTOMOBILE OCCUPANTS TO WHAT WILL BE AN APPARENT SPARSE USE OF THE RESERVED LANES BY BUSES ONLY, (2) MEASURES OF SUCCESS AND THE ASSOCIATED DATA COLLECTION REQUIREMENTS BEFORE AND DURING THE EXPERIMENT, (3) IMPROVEMENTS IN BUS UTILIZATION DURING THE PROJECT, (4) MEANS TO REDUCE CAR ATTRACTIVENESS WHICH IN TURN WOULD INCREASE THE RELATIVE ATTRACTIVENESS OF BUSSES, (5) UTILIZATION OF EXCESS BUS LANE CAPACITY BY CAR POOLS AND (6) CIRCULATION SYSTEMS.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKB

AD-708 021 13/6 5/1
INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA URBAN MASS
TRANSPORTATION PROJECT
CENTER CITY TRANSPORTATION: SUMMARY OF THE NATIONAL
URBAN COALITION SEMINAR, MINNEAPOLIS,
MINNESOTA, MAY 4-5, 1970, (U)
MAY 70 22P PARKER,ELIZABETH ;
REPT. NO. N-726(R)
CONTRACT: DAHC15-67-C-0011, DOT-OT-43(IAA)
PROJ: ARPA-T-70
MONITOR: IDA/HQ 70-11583

UNCLASSIFIED REPORT

DESCRIPTORS: (*URBAN AREAS, TRANSPORTATION),
(*TRANSPORTATION, MANAGEMENT PLANNING),
FEASIBILITY STUDIES, URBAN PLANNING, SYMPOSIA,
GEORGIA, MINNESOTA (U)
IDENTIFIERS: NICOLLET MALL PROJECT, INTERCEPT
OPERATION, ATLANTA(GEORGIA),
MINNEAPOLIS(MINNESOTA) (U)

THE SUMMARY OF THE MINNEAPOLIS SEMINAR
CONSTITUTES A PART OF IDA'S ON-GOING EXAMINATION OF
THE CENTER CITY TRANSPORTATION PROGRAM. IT
INCLUDES A DISCUSSION OF FEDERAL FUNDING AND
FEDERAL SELECTION CRITERIA, PRIORITY CENTER CITY
TRANSPORTATION PROJECTS AS REPORTED BY THE NATIONAL
URBAN COALITION, AND EXAMPLES OF CENTER CITY
PROJECTS. THE SEMINAR WAS LIMITED TO THE FOLLOWING
NINE CITIES: CLEVELAND, DETROIT, HOUSTON,
KANSAS CITY, LOS ANGELES, MIAMI,
MILWAUKEE, MINNEAPOLIS AND NEW ORLEANS.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHKA

AD-708 023 1/2 13/6
INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA URBAN MASS TRANSPORTATION PROJECT
A BIBLIOGRAPHY ON AIR TRAVEL AND ASSOCIATED GROUND TRANSPORTATION. (U)
JUN 70 48P KIERNAN,JANET D. ;
REPT. NO. N-731(R)
CONTRACT: DAHC15-67-C-0011, DOT-OT-43(IAA)
PROJ: ARPA-T-70
MONITOR: IDA/HQ 70-11522

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR TRANSPORTATION, *BIBLIOGRAPHIES), (*TRANSPORTATION, URBAN PLANNING), AIRPORTS, MANAGEMENT PLANNING (U)
IDENTIFIERS: TRANSPORTATION PLANNING (U)

A SURVEY OF DOCUMENTS AND ARTICLES WAS MADE TO HELP IDENTIFY CURRENT DATA AND STUDIES RELATING TO AIR TRAVEL DEMAND PROJECTIONS, ALTERNATIVE AIRPORT CONFIGURATIONS, FLOW PATTERNS AND RATES, AND AVAILABLE OR POTENTIAL GROUND TRANSPORTATION CONCEPTS, SYSTEMS, AND COMPONENTS. THE BIBLIOGRAPHY COVERS THE SUBJECT AREAS UP TO AUGUST 1969. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-708 027 5/1 5/2 9/2 15/7
PLANNING RESEARCH CORP WASHINGTON D C
CHIEF OF NAVAL OPERATIONS COMMAND/MANAGEMENT
INFORMATION SYSTEM (CNOCOM/MIS) STUDY. VOLUME
I. (U)
DESCRIPTIVE NOTE: FINAL REPT. APR-OCT 69,
JAN 70 260P JONES,R. A. ;WALKER,R.
C. ;DULLY,R. ;LACKNER,M. R. ;REARDON,J.
P. ;
REPT. NO. PRC-R-1388-VOL-1
CONTRACT: N00014-69-A-0321

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 2, AD-708 028.

DESCRIPTORS: (*NAVAL OPERATIONS, MANAGEMENT CONTROL
SYSTEMS), (*MANAGEMENT CONTROL SYSTEMS,
*INFORMATION RETRIEVAL), DATA PROCESSING SYSTEMS,
MANAGEMENT PLANNING, DECISION MAKING, DATA STORAGE
SYSTEMS, DATA TRANSMISSION SYSTEMS, COMMAND +
CONTROL SYSTEMS, FLOW CHARTING, DESIGN, STATE-OF-
THE-ART REVIEWS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
MILITARY PLANNING (U)

THE PURPOSE OF THE CHIEF OF NAVAL OPERATIONS
COMMAND/MANAGEMENT INFORMATION SYSTEM
(CNOCOM/MIS) STUDY WAS TO DEVELOP AN OVERALL
OPERATING SYSTEM CONCEPT AND AN IMPLEMENTATION PLAN
AS A FRAMEWORK WITHIN WHICH THE INFORMATION
SYSTEMS DIVISION COULD DESIGN AND IMPLEMENT
CNOCOM/MIS. THE OBJECTIVE OF THE SYSTEM CONCEPT
AND IMPLEMENTATION PLAN IS TO PROVIDE THE CHIEF OF
NAVAL OPERATIONS AND THE OPNAV STAFF A
FRAMEWORK WITHIN WHICH TO DEVELOP THE CAPABILITY TO
ACQUIRE, STORE, RETRIEVE, DISPLAY, EVALUATE AND
TRANSMIT INFORMATION FROM AN INTEGRATED DATA BASE TO
ACHIEVE BETTER SUPPORT FOR THE INFORMATION
REQUIREMENTS OF THE NAVY. THE SYSTEM TO BE
IMPLEMENTED IS TO BE HIGHLY AUTOMATED AND CAPABLE OF
RESPONDING TO REQUIREMENTS IN A TIMELY FASHION. (A
THOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-708 028 5/1 9/2 15/7 5/2
PLANNING RESEARCH CORP WASHINGTON D C
CHIEF OF NAVAL OPERATIONS COMMAND/MANAGEMENT
INFORMATION SYSTEM (CNOCOM/MIS) STUDY. VOLUME
II. (U)
DESCRIPTIVE NOTE: FINAL REPT. APR-OCT 69,
JAN 70 205P JONES,R. A. ;WALKER,R.
C. ;DULLY,R. ;LACKNER,M. R. ;REARDON,J.
P. ;
REPT. NO. PRC-R-1388-VOL-2
CONTRACT: N00014-69-A-0321

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME I, AD-708 027.

DESCRIPTORS: (*NAVAL OPERATIONS, MANAGEMENT CONTROL SYSTEMS), (*MANAGEMENT CONTROL SYSTEMS, *INFORMATION RETRIEVAL), DATA PROCESSING SYSTEMS, MANAGEMENT PLANNING, DECISION MAKING, DATA STORAGE SYSTEMS, DATA TRANSMISSION SYSTEMS, COMMAND + CONTROL SYSTEMS, INPUT-OUTPUT DEVICES, RECORDING SYSTEMS, COMPUTERS, PROGRAMMING(COMPUTERS), FLOW CHARTING, STATE-OF-THE-ART REVIEWS, DESIGN (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, MILITARY PLANNING (U)

THE OBJECTIVE OF THE CHIEF OF NAVAL OPERATIONS COMMAND/MANAGEMENT INFORMATION SYSTEM (CNOCOM/MIS) STUDY, AS SET FORTH IN REFERENCE (A), IS TO DEVELOP A CONCEPT AND IMPLEMENTATION PLAN FOR THE OPERATION OF A CHIEF OF NAVAL OPERATIONS COMMAND/MANAGEMENT INFORMATION SYSTEM WHICH WILL PROVIDE NAVAL OPERATIONS MANAGEMENT THE CAPABILITY TO RETRIEVE, DISPLAY, EVALUATE AND TRANSMIT INFORMATION. THE STUDY IS LIMITED TO THE METHODS AND FACILITIES REQUIRED TO EXTRACT AND FULLY UTILIZE INFORMATION FROM AN AUTOMATED DATA BANK AND IS CONCERNED WITH DETERMINING THE REQUIRED MANAGEMENT/SYSTEM INTERACTIONS. IT WILL DEAL WITH THE DEVELOPMENT OF OPERATIONAL PROCEDURES WHICH WILL PROVIDE MAXIMUM RESPONSIVENESS TO THE NEEDS OF THE USERS. THE DETERMINATION OF SPECIFIC USER INFORMATION REQUIREMENTS AND THE DESIGN OF THE INTERNAL DATA PROCESSING SYSTEM ITSELF IS BEING ACCOMPLISHED BY SEPARATE MEANS. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAAKS

AD-708 096 5/1
RAND CORP SANTA MONICA CALIF
FROM MANAGEMENT SCIENCES TO POLICY SCIENCES, (U)
MAY 70 54P DROR,YEHEZKEL ;
REPT. NO. P-4375

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH HEBREW UNIV., JERUSALEM (ISRAEL).

DESCRIPTORS: (*MANAGEMENT ENGINEERING, REVIEWS), MANAGEMENT PLANNING, SOCIOLOGY (U)
IDENTIFIERS: *MANAGEMENT SCIENCES, *POLICY SCIENCES (U)

MANAGEMENT SCIENCES REPRESENT A SIGNIFICANT ADVANCE IN KNOWLEDGE ON HOW TO CONTROL AND DIRECT SIMPLE ISSUES. UNDER THE PRESSURE OF INCREASINGLY PERCEIVED, COMPLEX SOCIAL ISSUES, EFFORTS ARE UNDER WAY ALSO TO UTILIZE MANAGEMENT SCIENCES FOR THEIR RESOLUTION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-708 292 15/3
RESEARCH ANALYSIS CORP MCLEAN VA
POSTATTACK RECOVERY. (U)
JUN 70 19P SOBIN,BERNARD ;
REPT. NO. RAC-P-51

UNCLASSIFIED REPORT

DESCRIPTORS: (*NUCLEAR WARFARE, RECOVERY), (*CIVIL DEFENSE SYSTEMS, RECOVERY), ECONOMICS, MANAGEMENT ENGINEERING, EFFICIENCY (U)
IDENTIFIERS: *POSTATTACK RECOVERY (U)

CONTENTS: PROBLEMS OF ECONOMIC RECOVERY; PHYSICAL CAPABILITIES; MANAGEMENT EFFECTIVENESS. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-708 400 13/2 5/1
MASSACHUSETTS INST OF TECH CAMBRIDGE CIVIL ENGINEERING SYSTEMS LAB
INTERACTIVE DESIGN COORDINATION FOR THE BUILDING INDUSTRY. (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.,
JUN 70 35P JACKSON,JAMES N. ;
REPT. NO. MAC-TM-10
CONTRACT: N00014-69-A-02 5-0002

UNCLASSIFIED REPORT

DESCRIPTORS: (*BUILDINGS, DESIGN), (*MANAGEMENT CONTROL SYSTEMS, BUILDINGS), DATA PROCESSING SYSTEMS, DECISION MAKING, SYSTEMS ENGINEERING, CONTRACTS, INTERACTIONS, DIGITAL COMPUTERS, CONSTRUCTION, MANAGEMENT PLANNING (U)
IDENTIFIERS: ICES(INTEGRATED CIVIL ENGINEERING SYSTEMS), INTEGRATED CIVIL ENGINEERING SYSTEMS, *MANAGEMENT INFORMATION SYSTEMS, BUILDING INDUSTRY, DATA MANAGEMENT, GROSS NATIONAL PRODUCT (U)

ONE OF THE RESPONSES TO THE NEED FOR EFFECTIVE INTERACTION IN THE USE OF COMPUTERS FOR A DESIGN PROJECT IS THE SUPERSYSTEM CONCEPT PROPOSED FOR ICES, THE INTEGRATED CIVIL ENGINEERING SYSTEM. THE SUPERSYSTEM IS DEFINED AS THE COOPERATIVE EFFORT ON THE PART OF THE DESIGNERS OF SEVERAL PROBLEM ORIENTED COMPUTER CAPABILITIES TO IMPLEMENT PROJECT ORIENTED CAPABILITIES BY ALLOWING EACH OF THEIR PROBLEM ORIENTED SUBSYSTEMS TO REFERENCE A SINGLE FILE OF PROJECT DATA. THE SUPERSYSTEM WOULD ALLOW DESIGN INTERACTION BY HAVING EACH OF THE PROBLEM ORIENTED COMPUTER SUBSYSTEMS REFERENCE A SINGLE FILE OF INFORMATION SPECIFYING THE PROJECT. FUTURE WORK IN THE APPLICATION OF COMPUTERS TO INTERACTIVE AND PROJECT ORIENTED DESIGN IN THE BUILDING INDUSTRY WILL HAVE TO CONCENTRATE ON THE FILE STRUCTURE TO BE USED IN THE IMPLEMENTATION OF A COMPUTER BUILDING DESIGN SUPERSYSTEM. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK.

AD-708 662 5/2 5/9
RAND CORP SANTA MONICA CALIF
INFORMATION SYSTEM FOR EDUCATIONAL POLICY AND ADMINISTRATION. (U)
JUN 70 8P CLAYTON, J. C. , JR;
REPT. NO. P-4384

UNCLASSIFIED REPORT

DESCRIPTORS: (*INFORMATION RETRIEVAL, *EDUCATION), MANAGEMENT ENGINEERING, PREDICTIONS, DECISION MAKING, INSTRUCTORS (U)
IDENTIFIERS: INFORMATION SYSTEMS (U)

A DESCRIPTION IS GIVEN OF A PROPOSED EDUCATIONAL INFORMATION SYSTEM (EIS) WHICH: (1) ALLOWS FOR MORE EFFECTIVE ADMINISTRATIVE OPERATIONS IN SUCH AREAS AS ACCOUNTING AND FISCAL MATTERS, STUDENT SCHEDULING, INVENTORY CONTROL, PURCHASING, AND LONG-RANGE FORECASTING OF GOALS AND NEEDS; (2) ASSISTS SCHOOL TRUSTEES, ADMINISTRATORS, AND TEACHERS IN THE ECONOMICS OF ACADEMIC DECISIONMAKING; (3) MAKES STUDENT AND TEACHER PERFORMANCE DATA READILY AVAILABLE FOR ANALYSIS OF TEACHER EFFECTIVENESS AND STUDENT PROGRESS, AND THUS IMPROVES THE SCHOOL'S ABILITY TO EVALUATE EDUCATIONAL POLICY; (4) PROVIDES THE SCHOOL WITH NEW SOURCES OF INFORMATION FOR ASSESSING WHAT IS VALUABLE AND ESSENTIAL WITHIN ITS EDUCATIONAL PROGRAM. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-708 /24 5/9 5/1
AIR FORCE HUMAN RESOURCES LAB LACKLAND AFB TEX PERSONNEL
RESEARCH DIV
RELIABILITY OF INDIVIDUAL VERSUS GROUP JOB PAY
RATINGS, (U)
MAY 70 27P HOGGATT,RALPH S. ;HAZEL,
JOE T. ;
PROJ: AF-7734
TASK: 773402
MONITOR: AFHRL TR-70-10

UNCLASSIFIED REPORT

DESCRIPTORS: (*WAGES, STANDARDS), (*JOB
ANALYSIS, RELIABILITY), PERFORMANCE TESTS, GROUP
DYNAMICS, TEST METHODS, CORRELATION TECHNIQUES,
EFFECTIVENESS, MANAGEMENT PLANNING (U)
IDENTIFIERS: INDIVIDUAL RATINGS, GROUP
RATINGS (U)

THE STUDY INVESTIGATED TWO APPROACHES FOR OBTAINING
JOB RATINGS IN ORDER TO DETERMINE WHICH PROCEDURE
PROVIDED THE MOST STABLE RATINGS, GIVEN A CONSTANT
NUMBER OF RATERS. SPECIFICALLY, IT COMPARED
RELIABILITY ESTIMATES DETERMINED BY AVERAGING ACROSS
INDIVIDUALLY OBTAINED JOB RATINGS AND RELIABILITY
ESTIMATES BASED ON CONSENSUS RATINGS FROM INTERACTING
PANELS. TO INVESTIGATE RELIABILITY OF JOB RATINGS
OBTAINED FROM INDIVIDUALS AND FROM GROUPS OR PANELS
OF RATERS, BASIC AIRMAN RATED RATED 100 BRIEF JOB
DESCRIPTIONS UNDER THREE CONDITIONS: INDIVIDUALLY,
IN A 3-MAN PANEL, AND IN A 5-MAN PANEL. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKO

AD-708 925 8/8 5/1 5/3
CHICAGO UNIV ILL DEPT OF ECONOMICS
ESTIMATION OF FIRST ROUND AND SELECTED SUBSEQUENT
INCOME EFFECTS OF WATER RESOURCES INVESTMENT. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
FEB 70 281P TOLLEY,GEORGE S. ;HASTINGS,
V. S. ;DAGHESTANI,ADNAN Z. ;RUGG,ROBERT ;
BEN-DAVID,SHAUL ;
CONTRACT: DA-49-129-CIVENG-65-11
MONITOR: IWR 70-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH NORTH
CAROLINA STATE UNIV., RALEIGH.

DESCRIPTORS: (*ECONOMICS, WATER SUPPLIES),
(*NATURAL RESOURCES, MANAGEMENT PLANNING),
RECREATION, EMPLOYMENT, STATISTICAL DATA, WAGES,
ABUNDANCE, REGRESSION ANALYSIS, MATHEMATICAL
MODELS, POPULATION (U)
IDENTIFIERS: INVESTMENTS, BENEFIT COST ANALYSIS,
NATIONAL INCOME, POPULATION MIGRATIONS (U)

THE PUBLICATION PRESENTS RESEARCH LEADING TO A
METHODOLOGY FOR ESTIMATING THE FIRST-ROUND LOCAL
EFFECTS RELATED TO THE CHANGE IN THE AVAILABILITY OF
WATER FOR SUPPLY PURPOSES OR RECREATION. IT
DEVELOPS ESTIMATES OF DEMAND FOR RESERVOIR
RECREATION, AND ESTIMATES THE CHANGE IN STRUCTURAL
UNEMPLOYMENT RESULTING FROM CHANGES IN OUTPUT. IT
EVALUATES THE DIFFERENCES IN REGIONAL MULTIPLIER
VALUES, PROPOSES A REFINEMENT IN REGIONAL MULTIPLIER
ESTIMATES, AND INTEGRATES THE VARIOUS RESEARCH
PAPERS, PRESENTING A CASE FOR THE SELECTED STRATEGY
FOR ESTIMATING THOSE NATIONAL INCOME BENEFITS TO
WATER RESOURCE DEVELOPMENT IN EXCESS OF DIRECT OUTPUT
VALUED IN TERMS OF THE USERS 'WILLINGNESS TO
PAY.' (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKA

AD-705 927 12/2
RAND CORP SANTA MONICA CALIF
A NOTE ON MARGINAL ALLOCATION IN MULTIPLE-SERVER
SERVICE SYSTEMS. (U)
JUN 70 8P KOLFE,ALAN J. ;
REPT. NO. P-4393

UNCLASSIFIED REPORT

DESCRIPTORS: (*QUEUEING THEORY, MATHEMATICAL
MODELS), MANAGEMENT PLANNING, MULTIPLE OPERATION,
STATISTICAL ANALYSIS (U)

THE PAPER DISCUSSES MATHEMATICAL MODELS OF A
SERVICE SYSTEM, COMPOSED OF N FACILITIES, TO
EXPEDITE SERVICE TO CUSTOMERS. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKB

AD-709 065 15/5 5/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A CONTINUOUS REVIEW INVENTORY ORDERING POLICY WITH AN EXPEDITED SHIPPING TIME OPTION. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
APR 70 37P EGGLESTON,DANIEL MAURICE , JR;

UNCLASSIFIED REPORT

DESCRIPTORS: (*STOCK LEVEL CONTROL, MATHEMATICAL MODELS), (*MANAGEMENT PLANNING, INVENTORY), DECISION MAKING, TIME, STATISTICAL DISTRIBUTIONS, OPTIMIZATION, NUMERICAL METHODS AND PROCEDURES, THESES (U)
IDENTIFIERS: SHIPPING TIME, DEMAND(ECONOMICS), ORDERING POLICIES (U)

A CONTINUOUS REVIEW POLICY FOR ORDERING INVENTORY STOCKAGE ITEMS WITH THE OPTION OF EXPEDITING THE SHIPPING TIME IS FORMULATED. DEMAND IS ASSUMED TO HAVE A POISSON DISTRIBUTION WITH A STATIONARY DEMAND RATE. INVENTORY HOLDING COSTS, ORDERING COSTS, SHORTAGE COSTS AND EXPEDITING COSTS ARE POSTULATED. THE MEASURE OF EFFECTIVENESS IS THE MINIMIZATION OF A LINEAR COMBINATION OF THESE COSTS. THE OPTIMAL POLICY IS DETERMINED ANALYTICALLY THROUGH THE USE OF FIRST DIFFERENCES. AN ITERATIVE COMPUTATIONAL PROCEDURE IS RECOMMENDED FOR OBTAINING THE OPTIMAL ORDER QUANTITY, REORDER POINT AND EXPEDITING LEVEL. ANALYSIS OF THE FIRST DIFFERENCES INDICATES THE CONDITIONS UNDER WHICH THERE IS A SOLUTION AND A SIMPLE NUMERICAL TEST FOR THESE CONDITIONS IS DEVELOPED. A NUMERICAL EXAMPLE IS GIVEN. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-709 112 15/5 5/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
THE RELATIONSHIP BETWEEN A (Q,R) INVENTORY POLICY
AND AN AGE REPLACEMENT MAINTENANCE POLICY. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
APR 70 42P HEARN,THOMAS MUIR ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, REPLACEMENT THEORY), (*INVENTORY CONTROL, DECISION MAKING), MAINTENANCE, MANAGEMENT PLANNING, OBSOLESCENCE THEORY, LOGISTICS, MATHEMATICAL MODELS, STOCK LEVEL CONTROL, CORRELATION TECHNIQUES, COST EFFECTIVENESS, THESES (U)

COST MODELS ARE DEVELOPED TO SHOW THE RELATIONSHIP BETWEEN INVENTORY AND MAINTENANCE POLICIES WHEN ONE COMPONENT OF ONE ITEM OF EQUIPMENT IS REPLACED IN ACCORDANCE WITH THE MAINTENANCE POLICY AND THE COMPONENTS ARE STOCKED IN ACCORDANCE WITH THE INVENTORY POLICY. A (Q,R) INVENTORY POLICY AND FAILURE REPLACEMENT AND AGE REPLACEMENT MAINTENANCE POLICIES ARE USED. THE NECESSARY CONDITIONS FOR DETERMINING OPTIMUM VALUES OF THE REORDER QUANTITY, THE REORDER POINT, AND TIME TO REPLACEMENT ARE DERIVED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AMK6

AD-709 412 5/1
PRINCETON UNIV N. J DEPT OF PSYCHOLOGY
THE MEASUREMENT AND DEVELOPMENT OF MANAGEMENT
INFORMATION SYSTEMS. (U)
DESCRIPTIVE NOTE: FINAL REPT. SEP 70,
SEP 70 24P SCHRODER,HAROLD M. ;
CONTRACT: N00014-67-A-0151-0020

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DATA PROCESSING SYSTEMS), DECISION MAKING, ORGANIZATIONS, GROUP DYNAMICS, UNCERTAINTY, INTERACTIONS, CURVE FITTING, FEEDBACK, ATTITUDES, STATISTICAL PROCESSES, ENVIRONMENT, MEASUREMENT, GROWTH (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, *INFORMATION PROCESSING (U)

THE FOCUS IS ON THE APPLICATION OF INFORMATION PROCESSING VARIABLES TO THE STUDY OF MANAGEMENT INFORMATION SYSTEMS. A MANAGEMENT INFORMATION SYSTEM IS EVALUATED BY: THE RANGE OF RELEVANT INFORMATION USED IN DECISION-MAKING, THE NUMBER OF DIFFERENT CONCEPTIONS GENERATED RE: INFORMATIONAL FEEDBACK, AND THE DEGREE TO WHICH ALTERNATIVE PERSPECTIVES ARE USED IN DECISION-MAKING. IN COMBINATION, THESE OUTPUT MEASURES DEFINE THE INFORMATION PROCESSING CAPACITY OF AN ORGANIZATION AND ARE STRONGLY ASSOCIATED WITH EFFECTIVE DECISION-MAKING IN COMPLEX TASKS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-709 500 5/11 5/1
HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA
REMARKS ON SYSTEMS ANALYSIS FOR SOCIAL PROBLEMS. (U)

MAY 70 12P COGAN,EUGENE A. ;
REPT. NO. HUMRRO PROFESSIONAL PAPER-15-70

UNCLASSIFIED REPORT

DESCRIPTORS: (*SOCIOMETRICS, PROBLEM SOLVING), (*MANAGEMENT PLANNING, ANALYSIS), EDUCATION, STANDARDS, MATHEMATICAL MODELS, DATA PROCESSING SYSTEMS, TEACHING METHODS, PERSONNEL, ADAPTIVE SYSTEMS, TRAINING (U)
IDENTIFIERS: *SYSTEMS ANALYSIS, DATA BANKS, *MANAGEMENT INFORMATION SYSTEMS (U)

THE NEED FOR MORE EXPERIENCE IN HOW TO ADAPT AND APPLY THE TECHNIQUES OF SYSTEMS ANALYSIS TO SOCIAL AND EDUCATIONAL PROBLEMS IS STRESSED. EDUCATION AND OTHER SOCIAL INSTITUTIONS, ALTHOUGH VERY LARGE ACTIVITIES, ARE MANAGED AS SMALL INDEPENDENT UNITS; THEREFORE, ADAPTING TECHNIQUES FROM OTHER APPLICATIONS AND TO FORM GENERAL DECISIONS PARADIGMS IS MANDATORY. USE OF SYSTEM ANALYSIS TECHNIQUES IS ESSENTIAL TO DEVELOP WAYS TO SOLVE SOCIAL PROBLEMS. FOR EDUCATION, INDIVIDUALIZING INSTRUCTION TO VASTLY IMPROVE THE EDUCATION PROCESS REQUIRES A SYSTEMS ANALYSIS APPROACH. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AMK6

AD-709 535 12/2 5/1
RAND CORP SANTA MONICA CALIF
OPTIMAL INCENTIVE CONTRACTING: A CONSTRAINED GAME THEORY MODEL. (U)
JUN 70 19P MIDLER, JOSEPH L. ;
REPT. NO. P-4404

UNCLASSIFIED REPORT

DESCRIPTORS: (*GAME THEORY, CONTRACTS), UNITED STATES GOVERNMENT, INDUSTRIES, MATHEMATICAL MODELS, OPTIMIZATION, BARGAINING, NONLINEAR PROGRAMMING, MANAGEMENT PLANNING (U)
IDENTIFIERS: INCENTIVE CONTRACTING (U)

SEVERAL VERSIONS OF THE NEGOTIATION OF THE PARAMETERS OF INCENTIVE CONTRACTS BETWEEN A GOVERNMENT AND PRIVATE CONTRACTORS ARE FORMULATED AS GAME THEORETICAL MODELS. THIS FRAMEWORK PERMITS ONE FOCUS UPON A NUMBER OF ASPECTS THAT HAVE PREVIOUSLY BEEN OVERLOOKED SUCH AS THE INTERACTION OF THE PARTICIPANTS, THE LACK OF DOMINATION BY ONE SIDE OR THE OTHER, CONSTRAINTS UPON THE PLAYER'S STRATEGIES, AND THE POSSIBLE JOINT INTERESTS OF THE ONE PARTY IN THE OTHER PLAYER'S OUTCOME. COMPUTATIONAL METHODS OF SOLUTION ARE SUGGESTED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-709 643 15/6
URS RESEARCH CO SAN MATEO CALIF
DEVELOPMENT OF PROCEDURES FOR ASSESSMENT OF LOCAL INDUSTRIAL PRODUCTIVE CAPACITY FOLLOWING NUCLEAR ATTACK. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
FEB 70 85P BLACK,ROBERT H. IVAN HOR.,
WILLIAM H. ;
REPT. NO. URS-753-6
CONTRACT: DAHC20-69-C-0136
PROJ: OCD-3537A

UNCLASSIFIED REPORT

DESCRIPTORS: (*INDUSTRIES, SURVIVAL), (*NUCLEAR WARFARE, INDUSTRIES), PRODUCTION, RECOVERY, MANAGEMENT PLANNING, REVIEWS (U)
IDENTIFIERS: *POST ATTACK RECOVERY, *INDUSTRIAL RECOVERY (U)

THE REPORT IS CONCERNED WITH THE POSTATTACK ASSESSMENT OF LOCAL INDUSTRIAL PRODUCTIVE CAPACITY. AN EARLY POSTATTACK ORIENTATION SURVEY IS PROPOSED WHICH CAN RAPIDLY GENERATE INFORMATION ON THE PRODUCTIVE CAPACITY OF A COMMUNITY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-709 869 5/1
OFFICE OF RESEARCH ANALYSES HOLLOMAN AFB N MEX
SOME TECHNOLOGICAL TRENDS OF IMPORTANCE TO THE AIR FORCE. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUN 70 34P MARTINO,JOSEPH P. ;
REPT. NO. ORA-70-0008
PROJ: AF-7909
TASK: 790900

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE EQUIPMENT, ADVANCED PLANNING), MATHEMATICAL PREDICTION, MANAGEMENT PLANNING, AEROSPACE CRAFT, LAUNCHING, JET FIGHTERS, WEIGHT, VELOCITY, AIRCRAFT ENGINES, POWER, ROCKET MOTORS, TRANSPORT PLANES, STATISTICAL DATA, LOW-TEMPERATURE RESEARCH, CURVE FITTING (U)
IDENTIFIERS: *TECHNOLOGICAL FORECASTING, MANAGEMENT INFORMATION SYSTEMS (U)

THE REPORT PRESENTS THE RESULTS OF FITTING APPROPRIATE TREND CURVES TO SEVERAL SETS OF DATA ON TECHNOLOGIES OF INTEREST TO THE AIR FORCE. THESE TRENDS, WHEN PROJECTED, REPRESENT TECHNOLOGICAL FORECASTS. THE LIKELIHOOD OF CONTINUATION OR CHANGE OF THE TREND IS DISCUSSED IN EACH CASE, WITH IMPLICATION FOR R AND D PLANNING. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-710 011 9/2 5/1
MASSACHUSETTS INST OF TECH CAMBRIDGE
ECONOMIES OF SCALE IN COMPUTER USE: INITIAL TESTS AND IMPLICATIONS FOR THE COMPUTER UTILITY. (U)
DESCRIPTIVE NOTE: DOCTORAL THESIS,
JUN 70 114P SELWYN,LEE L. ;
REPT. NO. MAC-TR-68
CONTRACT: NONR-4102(01)
PROJ: NR-048-189, RR003-09-01

UNCLASSIFIED REPORT

DESCRIPTORS: (*COMPUTERS, ECONOMICS), (*DATA PROCESSING SYSTEMS, COST EFFECTIVENESS), MANAGEMENT PLANNING, TIME SHARING, OPTIMIZATION, MATHEMATICAL MODELS, REGRESSION ANALYSIS, STATISTICAL DATA, REVIEWS, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, COMPUTER UTILITY, ECONOMIES OF SCALE, MAC PROJECT (U)

THE STUDY IS CONCERNED WITH THE EXISTENCE OF ECONOMIES OF SCALE IN THE PRODUCTION OF DATA PROCESSING AND OTHER COMPUTING SERVICES, AND THE POSSIBLE REGULATORY AND PUBLIC POLICY IMPLICATIONS OF SUCH ECONOMIES. AN ANALYSIS WAS MADE OF DATA ON NEARLY 10,000 COMPUTERS INSTALLED AT FIRMS IN MANUFACTURING INDUSTRIES, USING THE SURVIVAL TECHNIQUE, WHICH USES MARKET EXPERIENCE AS A BASIS FOR STUDYING LEVELS OF OPTIMUM PLANT SIZE. THE RESULTS OF THIS ANALYSIS SUGGESTED THAT USERS DID OPERATE COMPUTERS AS IF THERE WERE SIGNIFICANT ECONOMIES OF SCALE IN THEIR USE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-710 36; 15/5
GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS
RESOURCE USE AND OPERATIONAL ENVIRONMENT, (U)
JUN 70 20P HABER,SHELDON E. ;SEGEL, FRANK A. ;
REPT. NO. SERIAL-T-235
CONTRACT: N00014-67-A-0214-0001
PROJ: NR-347-020

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL VESSELS(COMBATANT), *MAINTENANCE), (*MANAGEMENT ENGINEERING, ENVIRONMENT), SHIPBORNE, WARFARE, BUDGETS, MATHEMATICAL MODELS, SPARE PARTS, MAINTENANCE PERSONNEL, TENDERS(VESSELS), STATISTICAL ANALYSIS, LOGISTICS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, NONCOMBAT ENVIRONMENTS, COMBAT ENVIRONMENTS (U)

THE STUDY EXAMINES THE QUESTION OF WHETHER MAINTENANCE PLANNING FACTORS DIFFER BETWEEN COMBAT AND NON-COMBAT ENVIRONMENTS. DATA FROM THE NAVY MAINTENANCE AND MATERIAL MANAGEMENT INFORMATION SYSTEM PROVIDE A MEANS OF MEASURING THE EXTENT OF MAINTENANCE ACTIVITY BEING CONDUCTED BY ORGANIZATIONAL AND INTERMEDIATE ECHELONS OF MAINTENANCE SUPPORT. ON THE BASIS OF THE EMPIRICAL EVIDENCE, IT WOULD APPEAR THAT SHIPBOARD MAINTENANCE RESOURCE USE IS REASONABLY CONSTANT BETWEEN COMBAT AND NON-COMBAT ENVIRONMENTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK0

AD-710 639 12/2
RAND CORP SANTA MONICA CALIF
AN EXTENDED CONCEPT OF 'MODEL', (U)
JUL 70 14P QUADE,E. S. ;
REPT. NO. P-4427

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE INTERNATIONAL FEDERATION OF OPERATIONAL RESEARCH SOCIETIES, VENICE (ITALY), JUN 69.

DESCRIPTORS: (*MODEL THEORY, MANAGEMENT PLANNING), INDUSTRIES, COMMERCE, MILITARY ORGANIZATIONS (U)
IDENTIFIERS: DELPHI TECHNIQUE, *SYSTEMS ANALYSIS (U)

OPERATIONS RESEARCH AND SYSTEMS ANALYSIS ARE NOW ACCEPTED, EVEN EXTOLLED, AS AIDS TO MANAGEMENT IN COMMERCE, INDUSTRY, AND DEFENSE. THEY ARE USED NOT ONLY TO INCREASE EFFICIENCY IN ROUTINE OPERATIONS BUT ALSO TO DETERMINE POLICIES AND ACTIONS, OFTEN AT THE HIGHEST LEVELS. THEY HAVE, HOWEVER, NOT HAD, AS YET, A CORRESPONDING ACCEPTANCE FOR THE SOLUTION OF SOCIAL AND PUBLIC PROBLEMS. ONE HANDICAP MAY BE A BIAS TOWARD TOO NARROW A CONCEPT OF MODEL.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 115 15/5 5/1
ECONOMIC SCIENCES CORP INC WASHINGTON D C
THE DEVELOPMENT AND APPLICATION OF A PROCEDURE FOR
ESTIMATING THE ECONOMIC LIFE OF WEAPONS SYSTEMS. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
AUG 70 44P EASTMAN,SAMUEL EWER ;
SCHEINER,WILLIAM K. ;
REPT. NO. ESI-0270
CONTRACT: DAHC15-70-C-0258

UNCLASSIFIED REPORT

DESCRIPTORS: (*WEAPON SYSTEMS, MANAGEMENT
PLANNING); MODELS(SIMULATIONS), COSTS,
MAINTENANCE, LOGISTICS (U)
IDENTIFIERS: DISCOUNTING, DEPRECIATION,
REPLACEMENT, *LOGISTICS MANAGEMENT, ECONOMIC
ANALYSIS (U)

THE OBJECTIVE OF THE STUDY IS TO DEVELOP AND APPLY
A PROCEDURE FOR ESTIMATING THE ECONOMIC LIFE OF ANY
WEAPON SYSTEM. TWO PROCEDURES ARE SUGGESTED. ONE
FOLLOWS THE DEPRECIATION GUIDELINES OF THE US
TREASURY, ONE IS BASED ON AN ECONOMIC MODEL, COST
MINIMIZATION (WITH REPLACEMENT). OF THE TWO,
ONLY THE LATTER IS FULLY DEVELOPED AND APPLIED USING
EXISTING ARMY DATA IN THE REPORT. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 117 9/2
PLANNING RESEARCH CORP MCLEAN VA
AUTOMATIC DATA PROCESSING RESOURCE ESTIMATING
PROCEDURES (ADPREP). (U)
DESCRIPTIVE NOTE: FINAL REPT.,
AUG 70 110P PELOSI,SILVIO ;PARMAM,BILL ;
BERTERMAN,JOHN ;FELDMAN,ARLEN ;
REPT. NO. PRC-R-1527
CONTRACT: DAHC15-69-C-0343

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING SYSTEMS,
LOGISTICS), INFORMATION RETRIEVAL, OPERATIONS
RESEARCH, DECISION MAKING, MANAGEMENT PLANNING (U)
IDENTIFIERS: ADPREP(AUTOMATIC DATA PROCESSING
RESOURCE ESTIMATING PROCEDURES), AUTOMATA
DATA PROCESSING RESOURCE ESTIMATING PROCEDURES (U)

THE OBJECTIVES OF THE PROJECT WERE TO DETERMINE THE
FEASIBILITY OF COLLECTING US ARMY EXPERIENCE DATA
RELATIVE TO THE DEVELOPMENT, OPERATION, AND
MAINTENANCE OF COMPUTER APPLICATION PROGRAMS; AND
HAVING DONE SO, TO COLLECT AND ANALYZE DATA FOR
DEVELOPING ESTIMATING RELATIONSHIPS. THE PROJECT'S
REPORT IS ORGANIZED IN FOUR VOLUMES. THE FIRST
VOLUME SUMMARIZES THE HISTORY OF THE PROJECT,
PRESENTS THE FINDINGS, CONCLUSIONS AND
RECOMMENDATIONS, AND DESCRIBES THE RESULTS AND
METHODOLOGY. THE OTHER THREE VOLUMES CONTAIN THE
SYSTEMS DESCRIPTIONS, THE RESOURCE ESTIMATING
PROCEDURES AND THE DATA COLLECTION PLAN.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-711 310 5/10
MICHIGAN UNIV ANN ARBOR INST FOR SOCIAL RESEARCH
ADVANCED TECHNOLOGY AND WORK GROUP BEHAVIOR IN A SETTING OF PLANNED SOCIAL CHANGE; A REPLICATION STUDY. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT. 1 OCT 69-: OCT 70.
JUL 70 32P TAYLOR,JAMES C. ;
CONTRACT: N00014-67-A-0181-0013
PROJ: NR-170-719

UNCLASSIFIED REPORT

DESCRIPTORS: (*BEHAVIOR, INDUSTRIAL PSYCHOLOGY), (*GROUP DYNAMICS, ANALYSIS), SOCIAL PSYCHOLOGY, TRANSFORMATIONS, MANAGEMENT PLANNING, REVIEWS, SCIENTIFIC RESEARCH, LEADERSHIP, DATA PROCESSING SYSTEMS, ATTITUDES, AUTOMATION, TEST METHODS (U)
IDENTIFIERS: TECHNOLOGICAL CHANGE, SOCIAL CHANGE, WORK GROUPS (U)

THE DOCUMENT REPORTS ON REPLICATION OF A STUDY DESIGN TESTING THE EFFECTS OF TECHNOLOGY ON AUTONOMOUS GROUP PROCESS, AND ON PLANNED CHANGE PROGRAMS DIRECTED TOWARD PARTICIPATIVE MANAGEMENT WHICH TENDS TO CONFIRM THE ORIGINAL FINDINGS. ADVANCED TECHNOLOGY IS CORRELATED WITH MORE AUTONOMOUS AND PARTICIPATIVE GROUP PROCESSES. ANOTHER RESULT OBTAINED IN THE ORIGINAL STUDY, THAT ADVANCED TECHNOLOGY FACILITATES PLANNED SOCIAL CHANGE EFFORTS, WAS ALSO INVESTIGATED. CONSISTENCY AND SIMILARITY IN THE PATTERN OF SOCIAL SYSTEM CHANGE WERE SOUGHT BETWEEN THE ORIGINAL FINDINGS AND THE REPLICATION RESULTS WHEN DATA WERE CONTROLLED FOR THE NUMBER OF LONGITUDINAL MEASURES, AND WHEN THE TOTAL PERIOD USED FOR PLANNED CHANGE ACTIVITIES WAS IGNORED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 311 5/3
MICHIGAN UNIV ANN ARBOR INST FOR SOCIAL RESEARCH
MEASURING SOPHISTICATION OF PRODUCTION TECHNOLOGY:
BACKGROUND, DEVELOPMENT, AND RESULTS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT. 1 OCT 69-1 OCT 70,
JUL 70 69P TAYLOR,JAMES C. ;
CONTRACT: N00014-67-A-0181-0013
PROJ: NR-170-719

UNCLASSIFIED REPORT

DESCRIPTORS: (*INDUSTRIAL PRODUCTION, MANAGEMENT ENGINEERING), AUTOMATION, MATERIALS, INDUSTRIAL EQUIPMENT, FEEDBACK, FACTOR ANALYSIS, PERSONNEL MANAGEMENT, JOB ANALYSIS, EMPLOYEE RELATIONS, MEASUREMENT, MODELS(SIMULATIONS), STATISTICAL PROCESSES, QUESTIONNAIRES (U)
IDENTIFIERS: *PRODUCTION TECHNOLOGY, *SOPHISTICATION, MANAGEMENT INFORMATION SYSTEMS (U)

THE RESULTS PRESENTED IN THE PAPER SUGGEST THAT, IN GENERAL, PRODUCTION TECHNOLOGY CAN BE QUANTITATIVELY MEASURED. THE PARTICULAR MEASURE DESCRIBED WAS CHECKED FOR REASONABLY GOOD RELIABILITY, VALIDITY, PROBLEMS, AND DRAWBACKS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 312 5/9 5/1
MICHIGAN UNIV ANN ARBOR INST FOR SOCIAL RESEARCH
PERSPECTIVES IN ORGANIZATIONAL DEVELOPMENT. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT. 1 OCT 69-1 OCT 70.
SEP 70 46P BOWERS,DAVID G. ;
CONTRACT: N00014-67-A-0181-0013
PROJ: NR-170-719

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORGANIZATIONS, SOCIAL PSYCHOLOGY), (*MANAGEMENT PLANNING, TRANSFORMATIONS), SOCIAL COMMUNICATION, DECISION MAKING, STANDARDS, INTERACTIONS, ADAPTIVE SYSTEMS, TRAINING, THEORY, BEHAVIOR (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, REINFORCEMENT(PSYCHOLOGY), *ORGANIZATIONAL DEVELOPMENT, CRITERIA, AFFECTIVE BEHAVIOR (U)

A THEORETICAL STATEMENT OF PROBLEMS IN THE ORGANIZATIONAL DEVELOPMENT AREA, THE REPORT REVIEWS ASPECTS OF CHANGE PRACTICE WITH MAJOR THEORETICAL IMPLICATIONS AND FORMULATES A SERIES OF RESEARCHABLE QUESTIONS. IT ALSO COVERS THE POTENTIAL RELEVANCE OF CERTAIN PARTS OF CLINICAL PRACTICE AND LEARNING THEORY TO THE PROBLEM OF ORGANIZATIONAL DEVELOPMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 358 5/9 5/10
MINNESOTA UNIV MINNEAPOLIS DEPT OF PSYCHOLOGY
PERSONAL VALUES AND MILITARY ADMINISTRATION. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 70 92P ENGLAND,GEORGE W. ;AGARWAL,
NARESH C. ;TRERISE,ROBERT E. ;CUTTRELL,
RICHARD R. ;OLSEN,KAREN A. ;
CONTRACT: N00014-68-A-0141-0003
PROJ: NR-151-323

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PERSONNEL, ATTITUDES), (*OFFICER PERSONNEL, QUESTIONNAIRES), (*TEST CONSTRUCTION(PSYCHOLOGY), PERSONNEL MANAGEMENT), MANAGEMENT PLANNING, NAVAL RESEARCH, PSYCHOMETRICS, RELIABILITY, TEST METHODS, MILITARY REQUIREMENTS (U)
IDENTIFIERS: *PERSONAL VALUES, CONCEPT MODELS, MANAGEMENT INFORMATION SYSTEMS (U)

THE REPORT DESCRIBES THE DEVELOPMENT OF AN INSTRUMENT TO MEASURE THE PERSONAL VALUES OF NAVAL OFFICERS. AS A FIRST STEP, THE CONCEPTUAL MODEL UNDERLYING THE MEASUREMENT OF VALUES IS EXPLAINED. THE MODEL REVOLVES AROUND THE MEANINGS AN INDIVIDUAL ATTACHES TO A CAREFULLY SELECTED SET OF CONCEPTS. THIS IS FOLLOWED BY A DESCRIPTION OF THE STUDIES RELATING TO MEASUREMENT OF PERSONAL VALUE SYSTEMS OF MANAGERS, EDUCATIONAL ADMINISTRATORS, AND ARMY OFFICERS. FINALLY, THE PROCEDURES USED IN DEVELOPING A SUITABLE PERSONAL VALUES QUESTIONNAIRE (PVQ) FOR THE NAVY ARE EXPLAINED. A THOROUGH SEARCH OF LITERATURE RELATING TO THE NAVY YIELDED AN INITIAL POOL OF 200 CONCEPTS. THESE WERE THEN TESTED FOR THEIR RELEVANCY AND RELIABILITY THROUGH SAMPLE SURVEYS OF NAVAL OFFICERS. AFTER ELIMINATING THE LESS RELEVANT AND LESS RELIABLE CONCEPTS, THE FINAL PVQ HAS BEEN DEVELOPED WHICH CONTAINS 86 CONCEPTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 382 5/1
AIR FORCE FLIGHT DYNAMICS LAB WRIGHT-PATTERSON AFB OHIO
A MANAGEMENT TECHNIQUE FOR IN-HOUSE RESEARCH PROGRAMS. (U)
JAN 70 19P BAKER,T. J. ;
CONTRACT: AFFDL-MR-70-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*RESEARCH PROGRAM ADMINISTRATION, OPERATIONS RESEARCH), COSTS, MANPOWER, MANAGEMENT PLANNING (U)
IDENTIFIERS: RESEARCH MANAGEMENT (U)

THE TECHNIQUE HAS BEEN UTILIZED PRINCIPALLY WITH IN-HOUSE EFFORTS INVOLVING TWO OR THREE MANYEARS OF EFFORTS AND SMALL FACILITIES. THE TECHNIQUE COULD BE APPLIED TO LARGE TEAM EFFORTS BUT MODIFICATION WOULD BE REQUIRED. THE DISCUSSION STARTS WITH THE INITIAL REQUEST FROM THE ENGINEER AND EACH STEP OF THE APPROVAL AND DOCUMENTATION MECHANISM IS COVERED, INCLUDING THE FORMS UTILIZED, AND ENDS WITH A DISCUSSION OF THE DISPLAY SYSTEM UTILIZED BY MANAGEMENT FOR FOLLOWING PROGRESS ON EACH EFFORT. BRIEF COMMENTS ARE MADE AS TO CERTAIN FRINGE BENEFITS WHICH ACCRUE FROM THIS TECHNIQUE. CONCLUSIONS REGARDING OTHER NEEDS FOR MANAGEMENT TECHNIQUES ARE PRESENTED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-711 759 5/9 5/2
RAND CORP SANTA MONICA CALIF
EDUCATIONAL INFORMATION SYSTEM DESIGN. (U)
AUG 70 18P BLACKWELL,F. W. ;BOEHM,B. W. ;CHALFANT,A. ;FARQUHAR,J. A. ;MARKOWITZ, B. ;
REPT. NO. P-4411

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, *INFORMATION RETRIEVAL), DECISION MAKING, DESIGN, SYSTEMS ENGINEERING, MANAGEMENT PLANNING (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS (U)

A NUMBER OF CRITICAL ASPECTS OF EDUCATIONAL INFORMATION SYSTEM DESIGN ARE DISCUSSED. THE SUCCESS OF ANY INFORMATION SYSTEM DEPENDS LARGELY UPON SEVERAL KEY DECISIONS THAT MUST BE MADE EARLY IN THE PRELIMINARY DESIGN PHASE. THE PAPER ATTEMPTS TO (1) INDICATE THE NATURE AND SOME OF THE MAJOR IMPLICATIONS OF THESE KEY DECISIONS, AND (2) PROVIDE A FRAMEWORK FOR RATIONAL DECISIONMAKING. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 835 5/3 5/1
CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP
RESEARCH AND DEVELOPMENT COORDINATION AS A PROBABILITY PROCESS. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
JAN 70 15P GAVEN,D. P. ;SRINIVASAN,V. ;
REPT. NO. RR-193
CONTRACT: NONR-760(24)
PROJ: NR-047 048

UNCLASSIFIED REPORT

DESCRIPTORS: (*SCIENTIFIC RESEARCH, QUEUEING THEORY), (*INDUSTRIAL PRODUCTION, MATHEMATICAL PREDICTION), MATHEMATICAL MODELS, PROBABILITY, STATISTICAL ANALYSIS, TIME, PARTIAL DIFFERENTIAL EQUATIONS, MANAGEMENT ENGINEERING (U)
IDENTIFIERS: RESEARCH AND DEVELOPMENT, COMPETITION (U)

MODELS ARE SET UP TO HELP DECIDE UPON THE APPROPRIATE SCALES OF RESEARCH AND DEVELOPMENT ACTIVITIES IN AN ORGANIZATION WHEN COMPETITIVE PREEMPTION OF NEW IDEAS IS A POSSIBILITY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-711 836 5/9 5/1
CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP
A GENERALIZED NETWORK MODEL FOR TRAINING AND RECRUITING DECISIONS IN MANPOWER PLANNING. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
MAY 70 16P CHARNES,A. ;COOPER,W. W. ;
NIEHAUS,R. J. ;
REPT. NO. RR-206
CONTRACT: NONR-760(24)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH TEXAS UNIV., AUSTIN, CENTER FOR CYBERNETIC STUDIES, CONTRACT N00014-67-A-0126-0008, PROJ. NR-047-021. SPONSORED IN PART BY OFFICE OF CIVILIAN MANPOWER MANAGEMENT, WASHINGTON, D. C.

DESCRIPTORS: (*MANPOWER STUDIES, *DECISION MAKING), (*TRAINING, DECISION MAKING), (*RECRUITING, DECISION MAKING), CIVILIAN PERSONNEL, NAVAL RESEARCH, NAVAL TRAINING, LINEAR PROGRAMMING, JOB ANALYSIS, COST EFFECTIVENESS, STATISTICAL PROCESSES, MATRIX ALGEBRA, MANAGEMENT PLANNING (U)
IDENTIFIERS: CONSTRAINTS, OBJECTIVES (U)

MODELS FOR MANPOWER PLANNING PREVIOUSLY DEVISED FOR THE U. S. NAVY'S OFFICE OF CIVILIAN MANPOWER MANAGEMENT HAVE ALL UTILIZED GOAL PROGRAMMING CONSTRUCTS WITH EMBEDDED MARKOFF PROCESSES. THESE MODELS--REFERRED TO AS 'OCMM MODELS'--ARE HERE EXTENDED TO INCLUDE TRAINING ELEMENTS ALONG WITH RELATED CONSTRAINTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-711 948 5/9
HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA
AN EXPERIMENTAL PROGRAM OF INSTRUCTION ON THE
MANAGEMENT OF TRAINING. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
JUN 70 343P HAGGARD,DONALD F. ;WILLARD,
NORMAN , JR.;BAKER,ROBERT A. ;OSBORN,WILLIAM
C. ;SCHWARTZ,SHEPHERD ;
REPT. NO. HUMRRO-TR-70-9
CONTRACT: DAHC19-70-C-0012
PROJ: DA-2-Q-062107-A-712

UNCLASSIFIED REPORT

DESCRIPTORS: (*TEACHING METHODS, MILITARY
TRAINING), (*MILITARY TRAINING, *MANAGEMENT
ENGINEERING), JOB ANALYSIS, MILITARY PERSONNEL,
PERSONNEL MANAGEMENT (U)
IDENTIFIERS: TRAINING MANAGEMENT, COURSE
INSTRUCTION, EVALUATION (U)

A 96-HOUR COURSE ON THE MANAGEMENT OF TRAINING WAS
DEVELOPED AND EVALUATED FOR PRESENTATION TO
ADVANCED OFFICER CLASSES. THE GENERAL
PROCEDURES FOLLOWED IN DEVELOPING THE COURSE WERE:
CONSTRUCTION BASED ON JOB TASK STATEMENTS, A SYSTEMS
ENGINEERING APPROACH TO TRAINING, AND STATE-OF-THE-
ART TECHNOLOGY; REPEATED PRESENTATION OF COURSE
MATERIALS, AND MODIFICATION BY TRAINING RESEARCH
PERSONNEL ON THE BASIS OF STUDENT AND INSTRUCTOR
APPRAISALS. THE COURSE WAS THEN PRESENTED AND
EVALUATED BY A MILITARY INSTRUCTOR.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-711 956 13/2 15/3
DALLAS WATER UTILITIES DEPT TEX
METROPOLITAN WATER SYSTEM OPERATION SUBSEQUENT TO NUCLEAR ATTACK OR NATURAL DISASTER. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
MAY 70 381P BROCK,DAN A.;
CONTRACT: PH-110-68-38

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON A STUDY TO DEVELOP A PROTOTYPE EMERGENCY WATER SUPPLY PLAN.

DESCRIPTORS: (*WATER SUPPLIES, MANAGEMENT PLANNING), (*NUCLEAR WARFARE, WATER SUPPLIES), DISASTERS, MATHEMATICAL MODELS, NUCLEAR EXPLOSION DAMAGE, VULNERABILITY, CIVIL DEFENSE SYSTEMS, POWER SUPPLIES (U)
IDENTIFIERS: POST ATTACK OPERATIONS, *POST ATTACK PLANNING, COMPUTERIZED SIMULATION, POST ATTACK RECOVERY (U)

THE STUDY DEVELOPS METHODOLOGY FOR CREATION OF A PLAN FOR OPERATION OF A METROPOLITAN WATER SYSTEM SUBSEQUENT TO NUCLEAR ATTACK OR NATURAL DISASTER. AUTOMATIC DIGITAL COMPUTER WATER SYSTEM SIMULATION IS USED TO DETERMINE THE ULTIMATE OVERALL EFFECT OF DAMAGE TO SPECIFIC COMPONENTS. VULNERABILITY ANALYSES ARE MADE AS A MATHEMATICAL MODEL OF THE WATER SYSTEM REACTS AUTOMATICALLY TO HYPOTHETICAL ATTACK DATA SUPPLIED BY THE NATIONAL CIVIL DEFENSE COMPUTER CENTER. PROBLEMS OF UNMANNED WATER PURIFICATION PLANT OPERATION ARE NOTED. THE NEED FOR AND AVAILABILITY OF ELECTRIC POWER IS CONSIDERED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 154 5/1 12/2
MICHIGAN UNIV ANN ARBOR
GOAL PROGRAMMING IN ECONOMETRICS, (U)
70 11P SPIVEY,W. ALLEN ;TAMURA,
HIROKUNI ;

UNCLASSIFIED REPORT
AVAILABILITY: PUB. IN NAVAL RESEARCH LOGISTICS
QUARTERLY, V17 N2 P183-192 JUN 70.
SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
WASHINGTON UNIV., SEATTLE.

DESCRIPTORS: (*MANAGEMENT PLANNING, ECONOMICS),
(*DECISION MAKING, MATHEMATICAL MODELS), MATRIX
ALGEBRA, OPTIMIZATION, COSTS, MONEY (U)
IDENTIFIERS: POLICY MAKING, *GOAL PROGRAMMING (U)

AN OPTIMIZATION MODEL IS INTRODUCED WHICH PERMITS
OVERATTAINMENT AND UNDERATTAINMENT OF ANY GOAL TO BE
WEIGHTED EITHER EQUALLY OR DIFFERENTLY IN THE
DECISION MAKER'S PREFERENCE FUNCTION. THE MODEL CAN
BE REGARDED AS A SPECIAL TYPE OF LINEAR OPTIMIZATION
MODEL (AS WE MAKE CLEAR BELOW) SO IT IS EASY TO
HANDLE COMPUTATIONALLY AND A WIDE RANGE OF PARAMETRIC
OR SENSITIVITY ANALYSES CAN BE IMPLEMENTED ON A
COMPUTER. THESE ANALYSES CAN DISPLAY INTERACTIONS
BETWEEN ALTERNATE OPTIMAL POLICIES AND GOAL
ATTAINMENT AND CAN ASSIST THE POLICY MAKER IN
STUDYING EXPLICITLY MANY OF THE TRADE OFFS BETWEEN
UNDERATTAINMENT, ATTAINMENT, AND OVER-ATTAINMENT OF
SELECTED GOALS. THE MODEL CAN ALSO EASILY
ACCOMMODATE EXPLICIT RESTRICTIONS ON INSTRUMENT
VARIABLES IN THE FORM OF NONNEGATIVITY AND UPPER AND
LOWER BOUNDS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 266 5/3
RAND CORP SANTA MONICA CALIF
PRODUCTIVITY, GROWTH, AND PUBLIC POLICY. (U)
AUG 70 7P WOLF,CHARLES , JR;
REPT. NO. P-4445

UNCLASSIFIED REPORT

DESCRIPTORS: (*ECONOMICS, GROWTH), (*MANAGEMENT PLANNING, PRODUCTION), FACTOR ANALYSIS, DECISION MAKING, EFFICIENCY, MOTIVATION, DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: PRODUCTIVITY MEASUREMENT, CONCEPTS, MANAGEMENT INFORMATION SYSTEMS, POLICIES, INNOVATIONS (U)

THE DOCUMENT DISCUSSES A CONTROVERSY NOW UNDERWAY AMONG ECONOMISTS AND OTHERS CONCERNED WITH UNDERSTANDING AND ANALYZING ECONOMIC GROWTH. THE CONTROVERSY CONCERNS THE EXTENT TO WHICH INCREASES IN TOTAL FACTOR PRODUCTIVITY ARE DUE TO IMPROVEMENTS IN THE QUALITY OF INPUTS IN CAPITAL AND LABOR, BUT ARE NOT FULLY REFLECTED IN THE UNITS USED TO MEASURE THESE INPUTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 347 5/9
RAND CORP SANTA MONICA CALIF
MATHEMATICAL MODELS IN EDUCATION AND TRAINING, (U)
SEP 70 38P HAMMOND,ALLEN ;
REPT. NO. RM-6357-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, MANAGEMENT PLANNING),
(*PROGRAMMED INSTRUCTION, MATHEMATICAL MODELS),
OPTIMIZATION, SIMULATION, MODELS(SIMULATIONS),
GAME THEORY, MATRIX ALGEBRA (U)
IDENTIFIERS: INPUT OUTPUT MODELS, CONCEPTS (U)

THE DOCUMENT PRESENTS A NONTECHNICAL INTRODUCTION TO THE STATE OF THE ART IN MODELING EDUCATION SYSTEMS. INPUT-OUTPUT MODELS ARE SEEN AS CONVENIENT FOR EXAMINING VOLUMINOUS DATA ON STUDENT FLOWS FOR SHORT PERIODS OR FOR RELATIVELY STATIC INSTITUTIONS. MANPOWER PLANNING MODELS ARE CONSIDERED AS USEFUL. OPTIMIZATION MODELS ARE OBSERVED TO SHOW RESOURCE ALLOCATION CHOICES EXPLICITLY, YIELD PLANS AND PRIORITIES, AND STIMULATE POLICY-LEVEL DISCUSSION. SIMULATIONS HELP IN MANAGEMENT AND SHORT-TERM PLANNING IF ENORMOUS QUANTITIES OF DATA ARE AVAILABLE. SIMPLE MODELS ARE BEST AT THE PRESENT LEVEL OF UNDERSTANDING THE EDUCATIONAL PROCESS. INCLUDED ARE A REVIEW OF THE LITERATURE AND A SELECTIVE BIBLIOGRAPHY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 350 5/9
RESEARCH ANALYSIS CORP MCLEAN VA
SIMPLE REGRESSION MODELS FOR ESTIMATING FUTURE
ENLISTMENT AND REENLISTMENT IN ARMY MANPOWER
PLANNING. (U)
DESCRIPTIVE NOTE: TECHNICAL PAPER,
SEP 70 48P LINDSAY,WILLIAM A. ;BERGER,
DORIS C. ;MORMILE,GREGORY T. ;
REPT. NO. RAC-TP-402
CONTRACT: DAHC19-69-C-0017
PROJ: RAC-010.209

UNCLASSIFIED REPORT

DESCRIPTORS: (*RECRUITING, MATHEMATICAL
PREDICTION), (*PERSONNEL MANAGEMENT, ARMY
RESEARCH), MANPOWER, STATISTICAL PROCESSES,
REGRESSION ANALYSIS, CURVE FITTING, MATHEMATICAL
MODELS, MANAGEMENT PLANNING (U)
IDENTIFIERS: ENLISTMENTS, REENLISTMENTS (U)

THE PAPER EXPLORES SEVERAL METHODS OF PROJECTING
ARMY ENLISTMENTS AND REENLISTMENTS FOR MANPOWER
PLANNING PURPOSES. FOR THE LONGER RANGE, THE
CORRELATION BETWEEN NO PRIOR SERVICE ENLISTMENTS AND
TOTAL ANNUAL ACCESSIONS PROVIDES A GOOD MEANS OF
PROJECTING THE FUTURE ENLISTMENT PATTERN WHEN
ACCESSION REQUIREMENTS HAVE BEEN PREVIOUSLY
ESTIMATED. SIMILAR MONTHLY REGRESSION EQUATIONS ARE
SHOWN TO BE APPROPRIATE FOR ESTIMATING MONTHLY
ENLISTMENTS. AN ALTERNATIVE METHOD FOR MONTHLY
PROJECTION THROUGH USE OF AN AVERAGE RATE IS
EXAMINED. THE REPORT DISCUSSES VARIOUS ARMY
PLANNING SCENARIOS (E.G., DRAFT VS NO DRAFT) TO
ILLUSTRATE WHEN THESE METHODS MAY BE APPROPRIATE.
FINALLY A REGRESSION METHOD FOR PREDICTING ANNUAL
FIRST-TERM REENLISTMENT RATES BASED ON PREVIOUS
YEAR'S TOTAL MANPOWER ACCESSIONS IS PRESENTED.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 455 5/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A MODEL OF THE PLANNING, PROGRAMMING, AND
BUDGETING PROBLEM. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
JUN 70 62P BRENT,ROBERT STEPHEN ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*DEPARTMENT OF DEFENSE, *MANAGEMENT PLANNING), FEDERAL BUDGETS, DECISION MAKING, MATHEMATICAL MODELS, ITERATIVE METHODS, EFFICIENCY, COST EFFECTIVENESS, THESES (U)
IDENTIFIERS: PLANNING PROGRAMMING AND BUDGETING SYSTEMS, SYSTEMS ANALYSIS, ALTERNATIVES, BENEFIT COST ANALYSIS (U)

A MODEL OF THE PLANNING, PROGRAMMING, AND BUDGETING PROBLEM IS FORMULATED. THE VARIABLES OF THE MODEL ARE RESOURCES, ELEMENTS, CHARACTERISTICS, BENEFITS (MEASURES OF EFFECTIVENESS), AND COSTS. THE NATURE OF THE PPB PROBLEM REQUIRES THAT THE MODEL INCORPORATE MULTIPLE MEASURES OF BENEFIT AND COST. TO CHARACTERIZE EFFICIENT CHOICES IN THE PPB CONTEXT DECISION RULES WHICH ARE NECESSARY AND SUFFICIENT FOR EFFICIENCY ARE DERIVED. DISCOUNTING OF BENEFITS OVER TIME IS DISCUSSED. SENSITIVITY ANALYSIS OF THE MODEL IS PERFORMED. DECENTRALIZATION POSSIBILITIES IN THE MODEL ARE EXPLORED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 457 1971
RAND CORP SANTA MONICA CALIF
A METHODOLOGY FOR COST FACTOR COMPARISON AND PREDICTION, (U)
AUG 70 BUP HARMAN,ALVIN J. ;HENRICHSEN, SUSAN ;
REPT. NO. RM-6269-ARPA
CONTRACT: DAHC15-67-C-0141; ARPA ORDER-189-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE PROCUREMENT, WEAPON SYSTEMS), (*COST EFFECTIVENESS, MANAGEMENT PLANNING), AIRCRAFT, GUIDED MISSILES, COSTS, MATHEMATICAL PREDICTION, CONTRACTS, STATISTICAL ANALYSIS, REVIEWS, MATHEMATICAL MODELS (U)
IDENTIFIERS: METHODOLOGY, EVALUATION, *MANAGEMENT INFORMATION SYSTEMS (U)

AN IMPROVED TECHNIQUE IS REPORTED FOR ANALYZING THE COST EXPERIENCE OF WEAPON SYSTEM PROCUREMENTS. UNLIKE EARLIER ANALYSES, THIS ONE ACCOUNTS FOR PERFORMANCE REQUIREMENTS, PROGRAM DURATION, DEGREE OF TECHNOLOGICAL ADVANCE, LEVEL OF EFFORT, EARLINESS OF ESTIMATES, AND SUBSEQUENT PROGRAM CHANGES, AS WELL AS THE MORE USUAL RATIO OF ESTIMATED TO ACTUAL COSTS (COST FACTORS). FIFTEEN WEAPONS FOR WHICH ENOUGH INFORMATION WAS AVAILABLE WERE ANALYZED AND THE RESULTS WERE COMPARED WITH 1950S AIRCRAFT AND MISSILE EXPERIENCE. BASED ON AN ASSESSMENT OF THE TECHNOLOGICAL ADVANCE AND LENGTH OF TIME FOR DEVELOPMENT OF A FUTURE SYSTEM, THE ACTUAL COST AND RANGE OF UNCERTAINTY CAN BE PREDICTED USING THIS MODE. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 461 9/2 5/1 12/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A MONTE CARLO PERT ANALYSIS SYSTEM UTILIZING THE GRAPHIC DISPLAY OF AN IBM 360 COMPUTER. (U)
DESCRIPTIVE NOTE: MASTERS' THESIS,
JUN 70 95P KOTTKE,ROBERT A. , JR;

UNCLASSIFIED REPORT

DESCRIPTORS: (*PROGRAMMING(COMPUTERS), OPERATIONS RESEARCH), (*MANAGEMENT PLANNING, FLOW CHARTING), MONTE CARLO METHOD, NETWORKS, RANDOM VARIABLES, GRAPHICS, DISPLAY SYSTEMS, DESIGN, THESES (U)
IDENTIFIERS: *PERT, IBM 360/67 COMPUTERS, COMPUTER GRAPHICS (U)

A SYSTEM FOR PERT ANALYSIS USING MONTE CARLO METHODS TO ESTIMATE PROJECT COMPLETION TIMES WAS DESIGNED USING A 2250 DISPLAY UNIT OPERATING ON AN IBM 360/67 COMPUTER. THE USER ENTERS THE PERT NETWORK AND THE DISTRIBUTIONS OF ACTIVITY TIMES BY USING THE LIGHT PEN ON THE 2250 DISPLAY UNIT. AFTER THE COMPUTER PERFORMS THE ANALYSIS, THE PROBABILITY OF BEING ON THE CRITICAL PATH IS SHOWN FOR EACH ARC IN THE NETWORK AND A HISTOGRAM OF PROJECT COMPLETION TIMES IS DISPLAYED. THE USER MAY THEN MODIFY THE NETWORK AND RUN ANOTHER ANALYSIS. A DISCUSSION OF THE DIFFERENCE BETWEEN THIS MONTE CARLO PERT ANALYSIS AND THE USUAL PERT ANALYSIS AND DETAILS OF THE IMPLEMENTATION IS INCLUDED, ALONG WITH OPERATING INSTRUCTIONS FOR THE PROGRAM. A USER WITH NO PROGRAMMING EXPERIENCE ON THE 2250 DISPLAY UNIT CAN UTILIZE THE PROGRAM BY FOLLOWING THE OPERATING INSTRUCTIONS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHKO

AD-712 481 5/1
ROCHESTER UNIV N Y MANAGEMENT RESEARCH CENTER
COMPARATIVE SURVEYS OF MANAGERIAL ATTITUDES AND
BEHAVIOR. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 70 55P BARRETT,GERALD V; BASS,
BERNARD M. ;
REPT. NO. TR-36
CONTRACT: N00014-67-A-0398-0002
PROJ: NR-171-029

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE COMPARATIVE
MANAGEMENT WORKSHOP HELD AT NEW YORK CITY ON 30-31
MAY 70.

DESCRIPTORS: (*MANAGEMENT ENGINEERING,
PSYCHOMETRICS), (*BEHAVIOR, REVIEWS),
EMPLOYEE RELATIONS, INTERACTIONS, MOTIVATION,
DECISION MAKING, UNCERTAINTY, ATTITUDES,
ENVIRONMENT, NORTHERN HEMISPHERE, SOUTHERN
HEMISPHERE (U)
IDENTIFIERS: *MANAGERIAL PERSONNEL, *CROSS
NATIONAL RESEARCH, SUPERVISOR SUBORDINATE
RELATIONS (U)

A REVIEW OF CROSS-NATIONAL MANAGERIAL ATTITUDES AND
BEHAVIORS WAS ORGANIZED AROUND EIGHT THEMES. THE
EIGHT SUBJECT AREAS WERE: SUPERIOR-SUBORDINATE
RELATIONSHIPS; MANAGERIAL NEEDS OR MOTIVATION;
INTERPERSONAL PROCESSES; ORGANIZATIONAL GOALS;
PERCEPTIONS OF EQUITY; DECISION-MAKING UNDER
UNCERTAINTY; MANAGERIAL VALUES; RELATIONSHIP BETWEEN
MANAGERIAL ATTITUDES AND OTHER ORGANIZATIONAL AND
ENVIRONMENTAL VARIABLES. IT WAS CONCLUDED THAT
WHILE THE COMPARATIVE STUDY OF MANAGERIAL BEHAVIOR IS
EXTREMELY DIFFICULT BECAUSE THE USUAL RESEARCH
PROBLEMS ARE MAGNIFIED MANY TIMES, DESPITE
METHODOLOGICAL PROBLEMS, CONSIDERABLE ADVANCES HAVE
BEEN MADE IN A RELATIVELY SHORT TIME. SEVERAL
SUBSTANTIVE RESEARCH DIRECTIONS WERE PROPOSED.
(AUTHOR) (U)

DDC "ORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 546 6/5
SYSTEMS DESIGN INC ROCKVILLE MD
REPORT OF THE BUMED TECHNICAL WORKSHOP ON AMPHIBIOUS MEDICINE, 1970 MEETING. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT. 15 APR-15 SEP 70.
SEP 70 66P BROADWELL,FRANKLIN C. ;
MATALONI,RAYMOND J. ;MERKLE,FRANCIS B. ;
CONTRACT: N00014-70-C-0284
PROJ: NR-259-084

UNCLASSIFIED REPORT

DESCRIPTORS: (*MILITARY MEDICINE, *SYMPOSIA), (*AMPHIBIOUS OPERATIONS, MILITARY MEDICINE), MEDICAL PERSONNEL, FEASIBILITY STUDIES, TRAINING, MANAGEMENT ENGINEERING, PROBLEM SOLVING (U)
IDENTIFIERS: *AMPHIBIOUS MEDICINE (U)

THE REPORT SUMMARIZES THE DISCUSSIONS AND RECOMMENDATIONS OF THE CONFEREES PARTICIPATING IN THE WORKSHOP. MAJOR PROBLEM AREAS REQUIRING CORRECTIVE ACTION AND A TENTATIVE LISTING OF RDT AND E PRIORITIES ARE PRESENTED FROM THE VIEWPOINT OF THE 'CONSUMERS' OR 'OPERATORS'. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 558 5/1 12/2
PENNSYLVANIA UNIV PHILADELPHIA MOORE SCHOOL OF
ELECTRICAL ENGINEERING
INTEGRATED PLANNING SYSTEMS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
SEP 70 123P BLANNING,ROBERT W. ;
REPT. NO. 71-07
CONTRACT: N00014-67-A-0216-0007
PROJ: NR-049-272

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, *LINEAR PROGRAMMING), ECONOMICS, INDUSTRIES, MANUFACTURING METHODS, TRANSPORTATION, COSTS, COST EFFECTIVENESS, ITERATIVE METHODS, COMPUTER PROGRAMS, NONLINEAR PROGRAMMING, DYNAMIC PROGRAMMING (U)
IDENTIFIERS: MARKETING, PRICES, *INTEGRATED PLANNING SYSTEMS, INVESTMENTS (U)

THE REPORT IS A DISCUSSION AND EVALUATION OF A SET OF PRELIMINARY EXPERIMENTS DESIGNED TO YIELD INSIGHT INTO THE DEVELOPMENT OF INTEGRATED PLANNING METHODS AND INTO THE DESIGN OF EXPERIMENTS TO DEMONSTRATE AND TEST THESE METHODS. FIVE SETS OF EXPERIMENTS WERE PERFORMED CONSISTING OF: INTEGRATING A LINEAR PROGRAMMING MODEL OF A TRANSPORTATION NETWORK WITH NONLINEAR PURCHASING COST FUNCTIONS; INTEGRATING TWO LINEAR PROGRAMMING MODELS OF MANUFACTURING FACILITIES WITH A SIMULATION OF A WAREHOUSE; INTEGRATING THE PRICING POLICIES OF FIVE RETAIL OUTLETS; INTEGRATING SIMPLIFIED PURCHASING, MANUFACTURING, AND MARKETING MODELS; INTEGRATING A STRATEGIC SYSTEM FOR SELECTING INVESTMENT PROJECTS WITH A SIMPLIFIED TACTICAL SYSTEM FOR YEARLY OPERATIONS. PROGRAMS FOR THE EXPERIMENTS ARE ALSO PRESENTED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 693 5/1
RAND CORP SANTA MONICA CALIF
INFORMATION SYSTEM DESIGN IN LARGE SCALE LOGISTIC SYSTEMS. (U)
SEP 70 15P DURBIN,E. P. ;
REPT. NO. P-4308-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING, DATA PROCESSING SYSTEMS), MANAGEMENT PLANNING, SYSTEMS ENGINEERING, PROGRAMMING(COMPUTERS), FACTOR ANALYSIS, LOGISTICS, DECISION MAKING, DESIGN, COST EFFECTIVENESS (U)
IDENTIFIERS: INFORMATION SYSTEMS, MANAGEMENT INFORMATION SYSTEMS (U)

IN A COMPLEX ORGANIZATION, AN INFORMATION SYSTEM PERFORMS THE SAME FUNCTION AS THE NERVOUS SYSTEM IN THE HUMAN BODY. THE PAPER DEALS WITH INFORMATION SYSTEMS USED BY MANAGERS AND PLANNERS IN VERY LARGE ORGANIZATIONS. MOST ATTENTION IN LARGE SYSTEMS HAS BEEN DIRECTED AT THE TRANSITION BETWEEN SECOND AND THIRD GENERATION COMPUTER EQUIPMENT. SECOND GENERATION SYSTEMS ARE CHARACTERIZED BY SERIAL MEMORY (TAPE UNITS), SEQUENTIAL BATCH PROCESSING, AND ONLY ONE USER AT A TIME ON THE CENTRAL PROCESSOR. THIRD GENERATION SYSTEMS ARE CHARACTERIZED BY DIRECT ACCESS MEMORY, VARIOUS TERMINAL OPTIONS, MULTI-PROGRAMMING, AND MULTI-USER TIME SHARING. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 713 1777 1/5
NATIONAL AVIATION FACILITIES EXPERIMENTAL CENTER ATLANTIC CITY N J
GRAPHIC SIMULATION STUDY OF TWO SITES FOR A SECOND MAJOR AIRPORT IN THE ATLANTA AREA. (U)
DESCRIPTIVE NOTE: FINAL REPT. FEB-APR 70,
OCT 70 53P ROSSITER,SIDNEY B. ;
REPT. NO. FAA-NA-70-48
PROJ: FAA-154-006-01X
MONITOR: FAA-RD 70-63

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR TRANSPORTATION, *GEORGIA), (*AIRPORTS, *AIR TRAFFIC CONTROL SYSTEMS), SITE SELECTION, MANAGEMENT PLANNING, QUESTIONNAIRES, AIR TRAFFIC CONTROLLERS, TERRAIN, WIND, INTERACTIONS, TERMINAL FLIGHT FACILITIES, FACTOR ANALYSIS, SIMULATION (U)
IDENTIFIERS: ATLANTA(GEORGIA), *GRAPHIC SIMULATION (U)

A GRAPHIC SIMULATION STUDY WAS MADE OF THE ATLANTA TERMINAL AREA TO PROVIDE COMPARISONS BETWEEN TWO PROPOSED SITES FOR A SECOND MAJOR AIRPORT BASED ON AIR TRAFFIC CONTROL CONSIDERATIONS. TERMINAL AREA AIR TRAFFIC CONTROL PROCEDURAL PLANS WERE DEVELOPED INCORPORATING EACH NEW SITE. THROUGH THE USE OF A QUESTIONNAIRE, DEVELOPED AROUND FACTORS THAT COMPRISE AN AIR TRAFFIC CONTROL SUBSYSTEM, EACH SITE WAS EVALUATED BY A PANEL OF 12 AIR TRAFFIC CONTROL SPECIALISTS FOR EACH OF FOUR DIFFERENT WIND DIRECTIONS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 762 12/2 5/1
RAND CORP SANTA MONICA CALIF
WHAT IF UTILITY FUNCTIONS DO NOT EXIST. (U)
SEP 70 35P ROBERTS,FRED S. ;
REPT. NO. R-528-ARPA
CONTRACT: DAHC15-67-C-0141, ARPA ORDER-189-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, ARMED FORCES OPERATIONS), (*DECISION MAKING, MATHEMATICAL MODELS), DECISION THEORY, BEHAVIOR, FUNCTIONS, SUBSTITUTES, OPERATIONS RESEARCH (U)
IDENTIFIERS: *UTILITY FUNCTIONS, ALTERNATIVES, MANAGEMENT INFORMATION SYSTEMS (U)

THE DOCUMENT DISCUSSES ALTERNATIVES TO THE STRICT DECISIONMAKING GOAL OF RANKING ALL ALTERNATIVES OR, EQUIVALENTLY, OBTAINING A UTILITY FUNCTION. FOR MANY MILITARY PROBLEMS, THE BEST INFORMATION AVAILABLE IS THE COMBINED JUDGEMENTS OF EXPERTS. OFTEN, HOWEVER, THE PREFERENCES OF DECISIONMAKERS ARE TOO INCONSISTENT OR AMBIGUOUS TO PERMIT A COMPLETE RANKING OF ALTERNATIVES OR A UTILITY FUNCTION. OPTIONAL METHODS FOR DEALING WITH SUCH A SITUATION INCLUDE FINDING A PROCEDURE THROUGH WHICH PREFERENCES CAN BE MODIFIED TO OBTAIN A UTILITY FUNCTION; USING THE UTILITY ASSIGNMENT THAT BEST APPROXIMATES A UTILITY FUNCTION; OR MODIFYING THE DEMANDS ON UTILITY FUNCTIONS. THE STUDY EMPHASIZES THE THIRD ALTERNATIVE, AND DESCRIBES IT IN TERMS OF TECHNIQUES FROM THE THEORY OF MEASUREMENT, RECENTLY DEVELOPED BY BEHAVIORAL SCIENTISTS, THAT FACILITATE DECISIONMAKING WHERE NO UTILITY FUNCTIONS EXIST. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 775 5/3 5/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
AN ANALYSIS OF COLLECTIVE GOODS AND EXTERNAL EFFECTS UNDER CONDITIONS OF COMPLETE INFORMATION AND PARETO OPTIMALITY. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
SEP 70 54P MEINICKE,THOMAS ALFRED I

UNCLASSIFIED REPORT

DESCRIPTORS: (*COMMERCE, DECISION MAKING), (*ECONOMICS, ANALYSIS), MANAGEMENT PLANNING, MATHEMATICAL MODELS, INTERACTIONS, FACTOR ANALYSIS, OPTIMIZATION, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, *PARETO OPTIMALITY, POLICY MAKING, *COLLECTIVE GOODS, EXTERNAL EFFECTS (U)

THE ALLOCATION OF RESOURCES IS A PROBLEM WHICH IS FACED BY ALL DECISION MAKERS WHETHER THEY BE PUBLIC SERVANTS OR PRIVATE ENTREPRENEURS. INCREASINGLY THESE DECISIONS HAVE REQUIRED MORE INFORMATION THAN CAN GENERALLY BE OBTAINED THROUGH THE DECENTRALIZED PRICING SYSTEM OF PERFECT COMPETITION. MANY OF THE SOCIAL PROBLEMS OF TODAY, SPECIFICALLY ENVIRONMENTAL POLLUTION, ARE ROOTED IN ECONOMIC CONCEPTS WHICH SEEM TO CAUSE ALLOCATIONS WHICH ARE NOT PARETO OPTIMAL IF DETERMINED BY THE MARKET ALONE. THE PAPER IS CONFINED TO THE STUDY OF TWO OF THE MORE IMPORTANT OF THESE CONCEPTS, COLLECTIVE GOODS AND EXTERNAL EFFECTS. THE BASIC ECONOMIC STRUCTURE UTILIZED IS THAT OF PERFECT COMPETITION UNDER A CRITERIA OF PARETO OPTIMALITY. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 780 5/3 9/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A PROPOSED REAL-TIME MONITOR AND DATA ANALYZER FOR AN AMERICAN COMMODITY EXCHANGE. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
JUN 70 141P BENTLEY,BRIAN SMITH ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*COMMERCE, MANAGEMENT ENGINEERING), (*DATA PROCESSING SYSTEMS, REAL TIME), FACTOR ANALYSIS, INTERFACES, MONITORS, DISPLAY SYSTEMS, SUBROUTINES, ECONOMICS, DIGITAL COMPUTERS, MATHEMATICAL PREDICTION, STATISTICAL PROCESSES, MATHEMATICAL MODELS, THESES (U)
IDENTIFIERS: INFORMATION SYSTEMS, COMMODITY PREDICTION, COMPUTER PRINTOUTS, *COMMODITY EXCHANGES, MANAGEMENT INFORMATION SYSTEMS (U)

THE THESIS CONSIDERS THE APPLICATION OF REAL-TIME DIGITAL INFORMATION SYSTEMS TO THE FIELD OF PROFESSIONAL TRADING OF COMMODITIES. PERTINENT FACTORS INVOLVED WITH THE INTERFACING OF A MONITOR SYSTEM WITH A COMMODITY EXCHANGE, AND WITH PROFESSIONAL TRADING INTERESTS, ARE CONSIDERED. SKELETAL FUNCTIONAL OUTLINES OF FACTUAL AND PREDICTIVE DISPLAYS ARE PROPOSED FROM THE MONITORING OF A GENERAL MARKET ENVIRONMENT TO THE MONITORING OF SPECIFIC USER POSITIONS IN THAT ENVIRONMENT. ONLY THE ACQUISITION, SUMMARIZATION AND PRESENTATION OF OBJECTIVE INFORMATION ARE CONSIDERED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 793 15/5 19/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
AN APPROXIMATE GOAL CONSTRAINT MODEL FOR AMMUNITION INVENTORY. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
SEP 70 42P HEHNEN,MARK THOMAS ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*AMMUNITION, LOGISTICS), (*INVENTORY CONTROL, MATHEMATICAL MODELS), COMBAT READINESS, MANAGEMENT PLANNING, MARINE CORPS, LEAD TIME, APPROXIMATION(MATHEMATICS), SIMULATION, PROGRAMMING(COMPUTERS), COSTS, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, COMPUTERIZED SIMULATION, GOAL CONSTRAINT MODELS (U)

THE PAPER CRITICIZES THE STANDARD ECONOMIC APPROACH TO INVENTORY CONTROL IN A MILITARY CONTEXT AS A GOAL CONSTRAINED MODEL WHICH OPTIMIZES A PERFORMANCE CRITERIA. AN ARGUMENT IS APPLIED TO AN AMMUNITION SYSTEM IN A COMBAT ZONE AND A MODEL IS FORMULATED TO MINIMIZE EXPECTED ON-HAND INVENTORY SUBJECT TO CONSTRAINTS ON REQUIRED PROTECTION AND ORDER SIZE OR FREQUENCY. THE MODEL ASSUMES THAT ORDERS DO NOT CROSS. TWO EXAMPLES, USING MARINE CORPS DATA, WERE TESTED BY A COMPUTER SIMULATION THAT PERMITTED ORDERS TO CROSS. IT WOULD APPEAR THAT THE MODEL IS BEST SOLVED BY SIMULATION IN VIEW OF THE UNCERTAINTIES CAUSED BY STOCHASTIC LEAD TIMES AND THE SKEWNESS OF LEAD TIME DEMAND. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 808 15/5 5/1
GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS
SIMULATION OF MACRO MULTI-ECHELON INVENTORY POLICIES. (U)
AUG 70 37P HABER,SHELDON E. ;
REPT. NO. SERIAL-T-241
CONTRACT: N00014-67-A-0214-0001
PROJ: NR-347-020

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, MAINTENANCE), (*SPARE PARTS, INVENTORY CONTROL), LOGISTICS, MATHEMATICAL MODELS, COST EFFECTIVENESS, SUBSTITUTES, FACTOR ANALYSIS, SIMULATION, NAVAL RESEARCH (U)
IDENTIFIERS: EVALUATION, MULTIECHELON SYSTEMS, ALTERNATIVES, MANAGEMENT INFORMATION SYSTEMS (U)

ALTERNATIVE REPAIR PART INVENTORY POLICIES ARE EXAMINED FOR A MULTI-ECHELON LOGISTICS SYSTEM. THE POLICIES ASSESSED PERTAIN TO THE DESIGN OF MULTI-ECHELON SYSTEMS RATHER THAN THE EVALUATION OF STOCK LEVEL DECISIONS FOR INDIVIDUAL REPAIR PARTS. ALTHOUGH THE CONTEXT IS ONE OF A MILITARY INVENTORY SYSTEM, THE POLICIES EXAMINED ARE OF IMPORTANCE IN NON-MILITARY SYSTEMS WHERE ITEM FAILURE RATES ARE LOW AND ONLY PERIODIC ACCESS TO RESUPPLY IS POSSIBLE. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 827 5/1 14/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A PRODUCTION PLANNING MODEL FOR A GOVERNMENTAL AGENCY WITH MULTI-PRODUCTION FACILITIES. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
SEP 70 79P ROESCH,MAURICE ALBERT , IIII

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, MATHEMATICAL MODELS), (*FEDERAL BUDGETS, PRODUCTION CONTROL), ORGANIZATIONS, COST EFFECTIVENESS, OPTIMIZATION, DECISION MAKING, DATA PROCESSING SYSTEMS, MARINE CORPS, LOGISTICS, THESES (U)
IDENTIFIERS: *PRODUCTION PLANNING, MANAGEMENT INFORMATION SYSTEMS, PRODUCTION CONTROL (U)

A DECISION MODEL IS FORMULATED FOR THE PLANNING OF PRODUCTION FOR A LARGE CENTRALLY MANAGED GOVERNMENTAL AGENCY WITH MULTI-PRODUCTION FACILITIES. THE CONCEPTS OF LINEAR ECONOMICS AND MATHEMATICAL PROGRAMMING ARE UTILIZED TO DEVELOP THE MODEL AS A SINGLE-PERIOD PLANNING TOOL FOR THE EFFICIENT ALLOCATION OF RESOURCES AND PRODUCTION EFFORT. IT IS ASSUMED THAT THE GOVERNMENTAL AGENCY DESIRES TO OPTIMIZE THE CONVERSION OF ITS INPUT RESOURCES TO OUTPUTS FOR ALL ITS PRODUCTION FACILITIES. UNDER THIS ASSUMPTION, THE TWO SEPARATE PROBLEMS OF EFFECTIVENESS MAXIMIZATION AND COST MINIMIZATION FOR THE AGENCY AS A WHOLE ARE CONSIDERED. THE QUESTIONS OF DATA COLLECTION, PARAMETER ESTIMATION, AND MANAGEMENT UTILIZATION OF THE MODEL ARE ALSO ADDRESSED. A SPECIFIC FORMULATION OF THE MODEL IS PRESENTED FOR THE DECISION PROBLEM OF THE MAINTENANCE AND OVERHAUL OF THE MAJOR END ITEMS OF EQUIPMENT WITHIN THE LOGISTICAL SYSTEM OF THE MARINE CORPS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 838 5/9 9/2
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
A LINEAR PROGRAMMING MODEL FOR USE IN ENGINEER FORCE REQUIREMENTS PLANNING. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
SEP 70 100P KITTS,RICHARD ARNOLD ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*ENGINEERING PERSONNEL, *MANPOWER STUDIES), (*PERSONNEL MANAGEMENT, MATHEMATICAL MODELS), MANAGEMENT PLANNING, LINEAR PROGRAMMING, FEASIBILITY STUDIES, STATISTICAL DATA, CONSTRUCTION MATERIALS, ARMY EQUIPMENT, STRUCTURES, MAINTENANCE, ARMY PERSONNEL, MILITARY REQUIREMENTS, NAVAL RESEARCH, THESES (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS (U)

CURRENT FORCE PLANNING METHODOLOGY FOR DETERMINING THE PROPER LEVEL, MIX, AND BALANCE OF U. S. ARMY ENGINEER FORCES REQUIRED TO SUPPORT THEATER LEVEL MILITARY OPERATIONS IS EXAMINED, AND A LINEAR PROGRAMMING MODEL IS DESCRIBED FOR USE IN THE PLANNING PROCESS. THE STRUCTURE OF THE LINEAR PROGRAMMING MODEL AND FEASIBLE WAYS TO DERIVE REQUIRED PARAMETER VALUES ARE EXPLAINED IN DETAIL. A TEST PROBLEM AND RESULTS OBTAINED USING THE LINEAR PROGRAMMING MODEL ARE PRESENTED TO AMPLIFY THE EXPLANATIONS AND TO PROVIDE A BASIS FOR FURTHER EVALUATION AND ANALYSIS. ALTERNATE MODEL FORMULATIONS FOR SOLVING MINIMUM FORCE, MINIMUM COST, OR MAXIMUM PRODUCTIVITY THEATER FORCE OBJECTIVES, AND EXTENSIONS FOR APPLICATIONS OF THE MODEL IN FORCE DEVELOPMENT AND ANALYSIS ACTIVITIES ARE DESCRIBED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 851 5/9
RAND CORP SANTA MONICA CALIF
AN APPROACH TO DEVELOPING ACCOUNTABILITY MEASURES
FOR THE PUBLIC SCHOOLS. (U)
SEP 70 31P BARRO,STEPHEN M. ;
REPT. NO. P-4464

UNCLASSIFIED REPORT

DESCRIPTORS: (*EDUCATION, THEORY), (*LEADERSHIP, EFFECTIVENESS), PROBLEM SOLVING, SOCIAL PSYCHOLOGY, MEASUREMENT, MANAGEMENT ENGINEERING, TRANSFORMATIONS, FACTOR ANALYSIS, INSTRUCTORS, MODELS(SIMULATIONS), DATA PROCESSING SYSTEMS (U)
IDENTIFIERS: *ACCOUNTABILITY, PUBLIC SCHOOLS (U)

ACCOUNTABILITY IS A DOCTRINE THAT THOSE EMPLOYED BY THE PUBLIC TO PROVIDE A SERVICE--ESPECIALLY THOSE VESTED WITH DECISIONMAKING POWER--SHOULD BE ANSWERABLE FOR THEIR PRODUCT. IT IS ONE THAT IS ACCEPTED READILY IN OTHER SPHERES AND THAT MANY WOULD BE WILLING TO EXTEND, IN PRINCIPLE, TO PUBLIC EDUCATION. THE PROBLEMS ARISE IN MAKING THE CONCEPT OPERATIONAL. THEN IT BECOMES NECESSARY TO DEAL WITH A NUMBER OF COMPLEX QUESTIONS DISCUSSED IN THE DOCUMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-712 998 5/8 15/3
ARMY ADVANCED MATERIEL CONCEPTS AGENCY WASHINGTON D C
THE MAN-MACHINE INTERFACE FOR .990 MANAGEMENT
INFORMATION SYSTEM DISPLAYS. (U)
SEP 70 45P VANDERSLUIS,HOWARD J. ;
REPT. NO. AMCA-71-006

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT OF AD HOC WORKING GROUP NO. 17.

DESCRIPTORS: (*COMBAT INFORMATION CENTERS, *DISPLAY SYSTEMS), (*MAN-MACHINE SYSTEMS, COMBAT INFORMATION CENTERS), MANAGEMENT ENGINEERING, INFORMATION RETRIEVAL, PROGRAMMING(COMPUTERS), STRESS(PSYCHOLOGY), SUBSTITUTES, THREAT EVALUATION, INTERFACES, ADAPTIVE SYSTEMS, SEQUENCES, PROBLEM SOLVING, REVIEWS (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS, EVALUATION, SCENARIOS (U)

AN AD HOC WORKING GROUP (AHWG) WAS CONVENED TO DETERMINE WHAT COMPUTER-ASSOCIATED DISPLAY TECHNOLOGY SHOULD BE BROUGHT TO BEAR TO EXTEND AND EXPAND THE CAPABILITIES OF HIGH-LEVEL FIELD COMMANDERS AND THEIR STAFFS. TO FOCUS THE STUDY, THE 'COMMANDER' WAS ASSUMED TO BE THE COMMANDER IN CHIEF OF A THEATER OF OPERATIONS; AND ONLY HIS FUNCTIONS RELATING TO COMBAT SERVICE SUPPORT WERE CONSIDERED. THE AHWG CONSIDERED FORMATS, FLEXIBILITY, ADAPTABILITY, DYNAMICS, PREDICTIVE CAPABILITY, DIRECTIVE FUNCTIONS, CREDIBILITY CONSIDERATIONS, AND OPERATING CHARACTERISTICS OF DISPLAYS. THE REPORT OF THE AHWG DESCRIBES THE DEVELOPMENT OF A METHODOLOGY FOR ANALYZING THE DISPLAY REQUIREMENTS OF THE COMMANDER. THE METHODOLOGY BEGINS WITH DEVELOPMENT OF SCENARIOS REPRESENTATIVE OF THE PRINCIPAL COMMAND-AND-CONTROL PROBLEMS OF HIGH-LEVEL COMMANDERS. FOR EACH SCENARIO, HUMAN AND ENVIRONMENTAL CONSTRAINTS ARE LISTED. BY COMPARING THESE CONSTRAINTS, INFORMATION-DISPLAY REQUIREMENTS ARE DERIVED. THE REPORT DESCRIBES THE GROUP'S USE OF THE METHODOLOGY THROUGH ONE COMPLETE SCENARIO AND LISTS THE DISPLAY REQUIREMENTS THAT WERE DERIVED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 002 12/2 15/E
ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO
DECISION ANALYSES USING PRESENT VALUE
TECHNIQUES. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
70 38P WILLIAMS,GEORGE B. ;
SUTTERFIELD,JAMES S. ;BIAGIOLI,MARY A. ;
REPT. NO. USAAVSCOM-TR-70-14

UNCLASSIFIED REPORT

DESCRIPTORS: (*DECISION THEORY, MANAGEMENT PLANNING), (*ARMED FORCES SUPPLIES, *REPLACEMENT THEORY), DEFENSE SYSTEMS, COST EFFECTIVENESS, COSTS, ITERATIVE METHODS, OPTIMIZATION, PREDICTIONS (U)
IDENTIFIERS: COST ESTIMATES, DISCOUNTED CASH FLOW (U)

THE DOCUMENT CONTAINS THREE SEPARATE PAPERS ENTITLED: 'CRITERIA FOR TIMING REPLACEMENT OF WEAPONS SYSTEMS', 'AN ANALYSIS TO SELECT THE BEST INVESTMENT FROM ALTERNATIVE AIRCRAFT SYSTEMS', 'A RISK ANALYSIS TECHNIQUE USING PRESENT VALUE THEORY'. THE DIFFICULT TASK OF ASSIGNING A VALUE TO THE PERFORMANCE OF A MILITARY MISSION IS UNDERTAKEN, AND THE COSTS OF THE MEANS OF ACHIEVING THAT MISSION ASSESSED AGAINST IT TO PROVIDE A MEASURE OF NET BENEFIT. THE PAYOFF IS THEN DISCOUNTED TO PROVIDE THE PRESENT VALUE OF A SYSTEM, AN ACTION, OR ALTERNATIVE METHODS OF ACCOMPLISHING THE MISSION. TWO EXAMPLES ARE WORKED OUT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 020 5/11 5/1 13/13
AMERICAN INSTITUTES FOR RESEARCH PITTSBURGH PA
REQUIREMENTS FOR SIMULATED OCCUPANCY CONDITIONS OF
LARGE PROTECTIVE SHELTERS. (U)
DESCRIPTIVE NOTE: FINAL REPT. 28 JUN 68-30 DEC 69,
AUG 70 326P MADARAS,GEORGE R. , II;
SMITH,ROBERT W. ;BRADSHAW,ARLENE M. ;
REPT. NO. AIR-77803-8/70-FR
CONTRACT: DAHC20-68-C-0122
PROJ: DA-77803

UNCLASSIFIED REPORT

DESCRIPTORS: (*SOCIOMETRICS, *FALLOUT SHELTERS),
(*MANAGEMENT ENGINEERING, FALLOUT SHELTERS),
ENVIRONMENT, NUCLEAR WEAPONS, FOOD, MEDICINE,
WATER SUPPLIES, SANITARY ENGINEERING, RADIATION
EFFECTS (U)

BACKGROUND IS PROVIDED FOR THE DEVELOPMENT OF A
COMPUTERIZED MODEL OF POSTATTACK SOCIAL ENVIRONMENTS
TO BE COMPLETED IN A SEPARATE EFFORT. THE
DOCUMENTATION AND DETAILED DESCRIPTION OF THE WIDE
RANGE OF FUNCTIONS AND MODELS REQUIRED FOR AN
ADEQUATE REPRESENTATION OF SUCH ENVIRONMENTS WERE
PRESENTED IN CHAPTERS ENTITLED: ATTACK
SCENARIO, BASIC SHELTER SYSTEM, SHELTER
SITUATION, AND SHELTER MANAGEMENT ACTIONS.
EACH OF THESE CHAPTERS DESCRIBES THE FUNCTIONS OR
PROCESSES OUTLINED FOR EACH OF THESE SHELTER SYSTEM
COMPONENTS, AND INCLUDES ANY SUPPORTIVE DATA WHICH
SERVED AS THE BACKGROUND FOR SUCH MODELING EFFORTS.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-713 027 15/5
PLANNING RESEARCH CORP LOS ANGELES CALIF
IMPLEMENTATION PLAN FOR THE INTEGRATED FACILITIES SYSTEM.
DESCRIPTIVE NOTE: FINAL REPT., (U)
AUG 70 58P MORGAN,DALE L. IBRIDEN, ROBERT M. IBARRY,F. GORDON ;
REPT. NO. PRC-R-1209-VOL-11
CONTRACT: DAHC15-68-C-0404

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO REPORT DATED MAY 70, AD-872 134L.

DESCRIPTORS: (*DATA PROCESSING SYSTEMS, LOGISTICS), (*LOGISTICS, MANAGEMENT ENGINEERING), AUTOMATION, ARMY OPERATIONS, MILITARY FACILITIES, INFORMATION RETRIEVAL (U)
IDENTIFIERS: *ARMY INTEGRATED FACILITIES SYSTEM, LOGISTICS MANAGEMENT (U)

THE DOCUMENT PRESENTS A CONCEPTUAL PLAN FOR THE DEVELOPMENT AND IMPLEMENTATION OF THE INTEGRATED FACILITIES SYSTEM (IFS) SUBSEQUENT TO THE CURRENT FUNCTIONAL DESIGN PHASE. THE PLAN IS DIVIDED INTO TWO MAIN PARTS: MANUAL MODE IMPLEMENTATION AND IMPLEMENTATION OF THE AUTOMATED PORTION OF THE IFS. A THIRD SECTION ADDRESSES EXTENSION OF THE SYSTEM TO OVERSEAS AREAS. THIS DOCUMENT IS INTENDED TO SUPPLEMENT THE FORTHCOMING DETAILED FUNCTIONAL SYSTEM REQUIREMENT (DFSR) FOR THE INTEGRATED FACILITIES SYSTEM, AND DA PAMPHLET 18-5, DEVELOPMENT AND MAINTENANCE OF MULTICOMMAND ADP SYSTEMS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 028 15/5 5/1
CENTER FOR NAVAL ANALYSES ARLINGTON VA
RESOURCE ALLOCATION IN A SEQUENTIAL FLOW PROCESS WITH AN APPLICATION TO THE NAVAL RESUPPLY SYSTEM. (U)
OCT 70 26P SILVERMAN,LESTER P. ;
REPT. NO. CNA-PROFESSIONAL PAPER-47

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PROCUREMENT, OPTIMIZATION), (*SPARE PARTS, SYSTEMS ENGINEERING), LOGISTICS, MANAGEMENT PLANNING, PROCESSING, TRANSPORTATION, COSTS, DISTRIBUTION FUNCTIONS, STOCHASTIC PROCESSES, SEQUENCES, MATHEMATICAL MODELS, BUDGETS (U)
IDENTIFIERS: BENEFIT COST ANALYSIS, MANAGEMENT INFORMATION SYSTEMS, REQUISITIONS (U)

THE PAPER CONSIDERS THE PROBLEM OF OPTIMIZING THE BENEFITS TO BE REALIZED FROM ALLOCATING RESOURCES IN A STOCHASTIC FLOW PROCESS. THE NAVAL RESUPPLY SYSTEM IS VIEWED AS CONSISTING OF SEVERAL PROCESSES, FROM THE REQUISITIONING, TO PROCESSING, TO TRANSPORTATION OF SPARE PARTS. THE TIME NECESSARY FOR COMPLETION OF ANY OF THE PROCESSES BY ANY OF THE ASSUMED HOMOGENEOUS ITEMS IS A RANDOM VARIABLE DESCRIBED BY A DISTRIBUTION FUNCTION WHOSE PARAMETERS ARE FUNCTIONS OF THE BUDGET AT WHICH EACH PROCESS IS SUPPORTED. HAVING DELINEATED ALTERNATIVE BUDGET LEVELS AND ASSOCIATED PARAMETER IMPROVEMENTS AT EACH STAGE, THE PROBLEM IS TO ALLOCATE A FIXED BUDGET SO THAT THE PROBABILITY OF COMPLETION FOR ANY ITEM OVER THE WHOLE FLOW SYSTEM BEFORE A GIVEN DEADLINE IS MAXIMIZED. THE SOLUTION TO THIS PROBLEM IS PRESENTED WITH SPECIFIC REFERENCE TO THE NAVAL RESUPPLY SYSTEM. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMKO

AD-713 050 12/2 5/1
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
DERIVATION OF ADDITIONAL PROBABILISTIC INFORMATION
FOR ANALYZING DECISIONS UNDER RISK. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
SEP 70 41P DOWLING,JOHN PATRICK , JR;

UNCLASSIFIED REPORT

DESCRIPTORS: (*DECISION THEORY, MANAGEMENT
PLANNING), STATISTICAL ANALYSIS, INVENTORY
ANALYSIS, PROBABILITY, MATHEMATICAL MODELS,
PROBLEM SOLVING, THESES (U)
IDENTIFIERS: RISK, NEWS BOY PROBLEM, PROFITS,
BENEFIT COST ANALYSIS, MANAGEMENT INFORMATION
SYSTEMS (U)

THE PROBLEM OF ANALYZING DECISIONS UNDER RISK IS
INVESTIGATED. THE VEHICLE FOR THIS INVESTIGATION IS
THE SINGLE-PERIOD INVENTORY MODEL COMMONLY REFERRED
TO AS THE NEWSBOY PROBLEM. THE MAXIMUM EXPECTED
VALUE OF THE PROFIT IS THE CRITERION MOST OFTEN USED
IN MAKING A DECISION IN THIS TYPE OF PROBLEM. THE
PAPER ANALYZES THIS MODEL IN SEVERAL WAYS.
APPROPRIATE DISPLAY OF ADDITIONAL INFORMATION
ALLOWS THE DECISION MAKER TO IMPLICITLY ASSIGN HIS
UTILITIES IN TERMS OF HIS PREFERENCES WHEN MAKING
DECISIONS UNDER RISK. A MODIFICATION OF THE
EXPECTED UTILITY FUNCTION IS ALSO DISCUSSED.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 057 15/5 12/2
CENTER FOR NAVAL ANALYSES ARLINGTON VA
FIXED SHORTAGE COSTS AND THE CLASSICAL INVENTORY MODEL. (U)
JUL 70 21P BROWN,GEORGE F. , JR.;
LLOYD,RICHMOND M. ;
REPT. NO. CNA-PROFESSIONAL PAPER-45

UNCLASSIFIED REPORT

DESCRIPTORS: (*INVENTORY CONTROL, MATHEMATICAL MODELS), MANAGEMENT PLANNING, OPTIMIZATION, COSTS, THEOREMS (U)

MANY RECENT ECONOMIC AND INVENTORY STUDIES HAVE INCLUDED VARIOUS TYPES OF FIXED OR LUMP-SUM COSTS AS IMPORTANT DETERMINANTS OF OPTIMAL BEHAVIOR. IN THIS PAPER, THE CLASSICAL INVENTORY MODEL IS AUGMENTED TO INCLUDE FIXED SHORTAGE COSTS. IN GENERAL, THE PRESENCE OF FIXED SHORTAGE COSTS CAN LEAD TO COMPLEX OPTIMAL SOLUTIONS. THE PURPOSE OF THIS PAPER IS TO ESTABLISH A SET OF SUFFICIENT CONDITIONS WHICH GUARANTEE THE EXISTENCE OF AN OPTIMAL ORDERING POLICY WHICH IS UNIQUE. THE RESULTING OPTIMAL POLICY IS DESCRIBED BY A UNIQUE SET OF CRITICAL NUMBERS WHICH ARE BOUNDED AND DECREASE MONOTONICALLY OVER THE HORIZON FOR WHICH THE INVENTORY SYSTEM IS TO BE OPERATED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 139 12/2 9/2 5/1
MASSACHUSETTS INST OF TECH CAMBRIDGE DEPT OF ELECTRICAL ENGINEERING
DEADLOCK-FREE SHARING OF RESOURCES IN ASYNCHRONOUS SYSTEMS. (U)
DESCRIPTIVE NOTE: DOCTORAL THESIS,
SEP 70 186P HEBALKAR,PRAKASH G. ;
REPT. NO. MAC-TR-75
CONTRACT: NONR-4102(01)

UNCLASSIFIED REPORT

DESCRIPTORS: (*SCHEDULING, MATHEMATICAL MODELS), (*MANAGEMENT PLANNING, MULTIPLE OPERATION), DECISION THEORY, QUEUEING THEORY, DATA PROCESSING SYSTEMS, TRANSPORTATION, MAINTENANCE, GRAPHICS INEQUALITIES, THEOREMS, THESES (U)
IDENTIFIERS: *RESOURCE ALLOCATION, ASYNCHRONOUS SYSTEMS, ASYNCHRONOUS COMPUTERS, MAC PROJECT, MULTIPROCESSING (U)

WHENEVER RESOURCES ARE SHARED AMONG SEVERAL ACTIVITIES THAT HOARD RESOURCES, THE ACTIVITIES CAN ATTAIN A STATE OF DEADLOCK IN WHICH, FOR LACK OF RESOURCES, NONE OF THE ACTIVITIES CAN PROCEED. DEADLOCKS CAN BE PREVENTED BY COORDINATION OF THE SHARING. EFFICIENT RUNNING OF THE ACTIVITIES UNDER SUCH COORDINATION REQUIRES KNOWLEDGE OF THE PATTERNS OF USE OF RESOURCES BY THE ACTIVITIES. THIS THESIS PRESENTS A STUDY OF DEADLOCK PREVENTION IN SYSTEMS IN WHICH A KNOWLEDGE OF THE USAGE OF RESOURCES BY THE ACTIVITIES DURING SEVERAL PHASES OF STEADY RESOURCE USAGE IS AVAILABLE. A REPRESENTATION CALLED A DEMAND GRAPH IS PRESENTED AND USED FOR THE STUDY OF DEADLOCKS. THE MODEL IS A GENERAL ONE AND ENCOMPASSES SYSTEMS IN WHICH THE ACTIVITIES THEMSELVES CONSIST OF MORE THAN ONE SEQUENCE OF PHASES AND ARE NOT NECESSARILY INDEPENDENT OF EACH OTHER. THE ANALYSIS IS APPLICABLE TO COMPUTER SYSTEMS AS WELL AS SYSTEMS IN THE REALM OF OPERATIONS RESEARCH. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-713 143 5/3 12/2
YALE UNIV NEW HAVEN CONN COWLES FOUNDATION FOR RESEARCH IN ECONOMICS
EQUILIBRIUM AND DEMAND FOR MEDIA OF EXCHANGE IN A PURE EXCHANGE ECONOMY WITH TRANSACTIONS COSTS, (U)
OCT 70 32P STARR,ROSS M. ;
REPT. NO. DISCUSSION PAPER-300

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SPONSORED IN PART BY OFFICE OF NAVAL RESEARCH, WASHINGTON, D. C.

DESCRIPTORS: (*ECONOMICS, MANAGEMENT PLANNING), (*COMMERCE, MATHEMATICAL MODELS), MONEY, COSTS, MATRIX ALGEBRA, SET THEORY, DISTRIBUTION(ECONOMICS) (U)
IDENTIFIERS: EQUILIBRIUM MODELS, DEMAND(ECONOMICS), MARKETING (U)

MATHEMATICAL GENERAL EQUILIBRIUM ANALYSIS HAS TO DATE DEVELOPED ALMOST COMPLETELY WITHOUT REFERENCE TO MONETARY PHENOMENA OR MONEY AS A COMMODITY. CLEARLY THIS LEAVES US SOMEWHAT AT SEA IN LOOKING FOR A MATHEMATICAL GENERAL EQUILIBRIUM ANALYSIS OF A MONETARY ECONOMY. THIS GAP IN THE THEORY REFLECTS ACTUALLY A MORE FUNDAMENTAL LACUNA: THE ABSENCE OF A THEORY OF TRANSACTIONS. MONEY'S PRIMARY FUNCTION--THE ONE FROM WHICH ITS OTHER ROLES DERIVE--IS AS A MEDIUM OF EXCHANGE: A FACILITATOR OF TRANSACTIONS. BUT WHAT DO TRANSACTIONS LOOK LIKE IN A GENERAL EQUILIBRIUM MODEL. THE STORY THAT IS USUALLY TOLD TO DESCRIBE THE MARKET OF A GENERAL EQUILIBRIUM MODEL IS SOMETHING LIKE THIS: ALL THE TRADERS GET TOGETHER IN ONE PLACE WITH AN AUCTIONEER. THE LATTER EVENTUALLY CALLS OUT EQUILIBRIUM PRICES. ALL TRADERS THEN PUT THEIR EXCESS SUPPLIES AT THOSE PRICES INTO A CENTRAL PILE OF GOODS AND WITHDRAW FROM THAT PILE THEIR EXCESS DEMANDS. BECAUSE THE PRICES ARE EQUILIBRIUM PRICES, SUPPLIES AND DEMANDS BALANCE AND NO TRADER IS LEFT WITH AN UNSATISFIED DEMAND. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 244 5/1
NORTHWESTERN UNIV EVANSTON ILL DEPT OF INDUSTRIAL ENGINEERING AND MANAGEMENT SCIENCES
A SERIES OF STUDIES ON THE DESIGN REQUIREMENTS FOR A REAL-TIME INFORMATION AND COMPUTATIONAL SYSTEM TO ASSIST R AND D MANAGEMENT IN THEIR PROJECT SELECTION DECISION-MAKING. (U)
DESCRIPTIVE NOTE: FINAL REPT. 1965-1970,
JUL 70 15P RUBENSTEIN,ALBERT H. ;BAKER, NORMAN R. ;FORSTER,R. PATRICK ;HURTER,ARTHUR P. ; JR.;KEGAN,DANIEL L. ;
REPT. NO. 70-33
CONTRACT: NONR-1228(38)

UNCLASSIFIED REPORT

DESCRIPTORS: (*RESEARCH PROGRAM ADMINISTRATION, MANAGEMENT PLANNING), (*DECISION MAKING, MATHEMATICAL MODELS), STANDARDS, FACTOR ANALYSIS, PROGRAMMING(COMPUTERS), REAL TIME, REVIEWS, SELECTION, DATA PROCESSING SYSTEMS, INFORMATION RETRIEVAL (U)
IDENTIFIERS: RESEARCH AND DEVELOPMENT, INFORMATION SYSTEMS, COMPUTER ANALYSIS, EVALUATION (U)

THE PAPER REPORTS ON A SERIES CURRENTLY UNDERWAY WHICH ARE PART OF A LONG TERM PROJECT AIMED AT SPECIFYING THE DESIGN REQUIREMENTS FOR A REAL-TIME, COMPUTER-AIDED, INFORMATION SYSTEM FOR THE SELECTION, REVIEW AND EVALUATION OF RESEARCH AND DEVELOPMENT (R AND D) PROJECTS. SPECIFICALLY THE REPORT FOCUSES ON PHASES OF THE RESEARCH WHICH HAVE BEEN SUPPORTED BY THE OFFICE OF NAVAL RESEARCH. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-713 379 5/9 9/2
ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS
A STUDY OF DATA INPUT PROBLEMS WITHIN THE ARMY PERSONNEL INFORMATION SYSTEM. (U)
JUN 70 43P SIMMONS,BOBBY R. :

UNCLASSIFIED REPORT

DESCRIPTORS: (*PERSONNEL MANAGEMENT, ARMY), (*DATA PROCESSING SYSTEMS, PERSONNEL MANAGEMENT), INFORMATION RETRIEVAL, AUTOMATION, REVIEWS, ANALYSIS, MARINE CORPS, OPTICAL SCANNING, MANAGEMENT ENGINEERING, SYSTEMS ENGINEERING, MATHEMATICAL LOGIC, CODING, INPUT-OUTPUT DEVICES (U)
IDENTIFIERS: RECOMMENDATIONS (U)

THE DOCUMENT INVESTIGATES DATA INPUT PROBLEMS WITHIN THE ARMY'S PERSONNEL INFORMATION SYSTEM. IN CONNECTION WITH THIS, AN ANALYSIS OF THE UNITED STATES MARINE CORPS MANPOWER MANAGEMENT SYSTEM HAS BEEN MADE. BASED UPON THE RESEARCH FINDINGS, IT IS EVIDENT THAT THE PROPER UTILIZATION OF SOURCE DATA AUTOMATION IS OF EXTREME IMPORTANCE IN SUPPORT OF THE TOTAL MANPOWER MANAGEMENT AREA OF THE ARMY PERSONNEL INFORMATION SYSTEM. THIS IS ESPECIALLY TRUE IF THE BASIC PHILOSOPHIES AND CONCEPTS WHICH UNDERIE THE AUTOMATIC TECHNIQUES BEING APPLIED BY DEPARTMENT OF THE ARMY ARE TO BE ADHERED TO. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 389 5/9
FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING
A SIMULATION OF MANPOWER ALLOCATION POLICIES AT A MAINTENANCE DEPOT. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
JUN 70 116P BURNS,J. F. ;DOWNEY,J. C. ;
REPT. NO. THEMIS-UF-TR-44
CONTRACT: DAHC04-68-C-0002
PROJ: DA-2-T-014501-B-81-8
MONITOR: AROD T-1:51

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANPOWER, OPTIMIZATION), (*PERSONNEL MANAGEMENT, MATHEMATICAL MODELS), (*SUPPLY DEPOTS, MAINTENANCE PERSONNEL), SIMULATION, MAINTENANCE, INDUSTRIAL RELATIONS, MANAGEMENT PLANNING, SYSTEMS ENGINEERING, COST EFFECTIVENESS, PROGRAMMING(COMPUTERS), JOB ANALYSIS, FLOW CHARTING (U)
IDENTIFIERS: POLICYMAKING, *MANPOWER ALLOCATION MODELS, MANAGEMENT INFORMATION SYSTEMS, THEMIS PROJECT, DYNAMO 2 PROGRAMMING LANGUAGE (U)

A STUDY IS REPORTED OF THE DYNAMIC NATURE OF MANPOWER ALLOCATION AT A MILITARY MAINTENANCE DEPOT. THE INVESTIGATION WAS SIMULATED USING SOME OF THE BASIC PRINCIPLES OF INDUSTRIAL DYNAMICS. DYNAMO 2 (DYNAMIC MODELS) IS USED AS THE SIMULATION LANGUAGE. THE RESULTS OF THE INVESTIGATION INDICATE THAT, WITHIN THE GIVEN ORGANIZATION, MANPOWER PLANNING AND ALLOCATION ARE RELATED TO MEETING SCHEDULE DEMANDS AND MAINTAINING REASONABLE LEVELS OF COST IN PRODUCING A PRODUCT OR SERVICE. THIS REPORT ALSO SHOWS THAT THE INDUSTRIAL DYNAMICS TECHNIQUE CAN BE UTILIZED EFFECTIVELY TO PRESENT VARIOUS ALTERNATIVES IN MANPOWER PLANNING TO MANAGEMENT. THE BASIC STRUCTURE OF THE MODEL PRESENTED MAY BE ADAPTED TO A VARIETY OF MILITARY AND INDUSTRIAL SYSTEMS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 482 8/8 5/3
INTASA MENLO PARK CALIF
PRELIMINARY REVIEW AND ANALYSIS OF FLOOD CONTROL
PROJECT EVALUATION PROCEDURES. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
SEP 70 131P ARVANITIDIS,N. V. ;LIND,R.
L. ;ROSING,J. ;JOHNSON,G. P. ;
REPT. NO. IRR-70-01
CONTRACT: DACW07-70-C-0050
MONITOR: IWR 70-3

UNCLASSIFIED REPORT

DESCRIPTORS: (*FLOODS, CONTROL), PROTECTION,
DAMAGE, MANAGEMENT PLANNING, SIMULATION, COSTS,
TERRAIN, LAW, MAINTENANCE, ECONOMICS,
STATISTICAL ANALYSIS, REVIEWS (U)
IDENTIFIERS: *FLOOD CONTROL, FLOOD PLAIN
MANAGEMENT, LAND ENHANCEMENT (U)

THE STUDY CLARIFIES THE ECONOMIC CONSEQUENCES AND EFFECTS OF PROGRAMS DESIGNED TO PROTECT OR OTHERWISE MANAGE FLOOD PLAINS. A FIRM BASIS IS ESTABLISHED TO APPROPRIATELY DISTINGUISH BETWEEN THE SOURCE OF CHANGE OF A FLOOD PLAIN DEVELOPMENT FROM ITS ECONOMIC EFFECTS. THE STUDY MAKES THE FOLLOWING MAJOR FINDINGS: WHERE THE DEVELOPMENT IN THE FLOOD PLAIN WILL BE THE SAME WITH AND WITHOUT THE PROJECT, BENEFITS ATTRIBUTABLE TO THE PROJECT WILL EQUAL TOTAL DAMAGES REDUCED. WHERE THERE IS PROJECT INDUCED GROWTH, THE BENEFITS ATTRIBUTABLE TO THE PROJECT ARE EQUAL TO THE NET INCREASE IN PRODUCTIVITY OF THE ECONOMY DUE TO THE RELOCATION OF ACTIVITIES BOTH INSIDE AND OUTSIDE THE FLOOD PLAIN. BENEFITS FROM PROJECT INDUCED GROWTH (SO-CALLED 'LAND ENHANCEMENT' BENEFITS) CAN BE MEASURED BY THE DIFFERENCE BETWEEN THE NET INCOME (PROFITS) OF ACTIVITIES WHICH MOVE INTO THE FLOOD PLAIN WITH PROTECTION AND THE NET INCOME THEY COULD EARN OUTSIDE THE FLOOD PLAIN. IN THE ABSENCE OF DIRECT OBSERVATION OF CHANGE IN NET INCOME, BENEFITS FROM PROJECT INDUCED GROWTH CAN BE MEASURED IN TERMS OF SIMULATING DAMAGES REDUCED TO NEW ACTIVITIES THAT WOULD LOCATE IN THE FLOOD PLAIN WITH PROTECTION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 499 5/9
HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA
A MANPOWER DELIVERY SYSTEM: IMPLICATIONS FOR
CURRICULUM DEVELOPMENT, (U)
JUN 70 11P SMITH,ROBERT G. , JR.;
REPT. NO. HUMRRO PROFESSIONAL PAPER-19-70

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE INVITATION
CONFERENCE ON CURRICULUM DEVELOPMENT AND VOCATIONAL
EDUCATION, MINNEAPOLIS, MINNESOTA, MAR 70.

DESCRIPTORS: (*MANPOWER, INDUSTRIAL RELATIONS),
(*PERSONNEL MANAGEMENT, MATHEMATICAL MODELS),
ABUNDANCE, INDUSTRIAL TRAINING, JOB ANALYSIS,
SYSTEMS ENGINEERING, PROGRAMMED INSTRUCTION,
MANAGEMENT PLANNING, FACTOR ANALYSIS, DATA
PROCESSING SYSTEMS (U)
IDENTIFIERS: VOCATIONAL GUIDANCE (U)

A SIMPLIFIED AND ABSTRACT MODEL OF A MANPOWER
DELIVERY SYSTEM IS PRESENTED. THE RELATIONSHIPS
AMONG THE FUNCTIONS OF OCCUPATIONAL DEMANDS, GUIDANCE
ACTIVITIES, PLACEMENT WORK, OCCUPATIONAL BARRIERS,
AND INTERESTS OF THE JOB-SEEKER ARE DISCUSSED. THE
MODEL POINTS OUT TO EDUCATIONAL AND TRAINING PLANNERS
THE PRINCIPAL ASPECTS TO CONSIDER WHEN CONDUCTING A
SYSTEM ANALYSIS FOR VOCATIONAL OR PROFESSIONAL
EDUCATION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 606 5/1 9/2 14/3
RAND CORP SANTA MONICA CALIF
USE OF MAGNETIC TAPE FOR REPORTING COST INFORMATION. (U)
SEP 70 53P STRING,JOSEPH , JR;
REPT. NO. RM-6313-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, COST EFFECTIVENESS), (*DATA PROCESSING SYSTEMS, MAGNETIC TAPE), INFORMATION RETRIEVAL, CONTRACTS, PROCUREMENT, COSTS (U)
IDENTIFIERS: ACCOUNTING, DATA ACQUISITION, COST ANALYSIS (U)

AS AN ALTERNATIVE TO THE CURRENT PRACTICE OF SUBMITTING COST REPORTS ON PAPER, THIS STUDY SUGGESTS INCORPORATING THE CAPABILITIES OF ELECTRONIC DATA PROCESSING IN THE DESIGN OF REPORTING SYSTEMS AND USING MAGNETIC TAPE AS THE PRIMARY MEDIUM FOR REPORTING AND STORING DATA. INSTEAD OF SUBMITTING PRINTED REPORTS, A CONTRACTOR WOULD PROVIDE DOCUMENTATION OF HIS ACCOUNTING SYSTEM AND WORK ASSIGNMENT STRUCTURE AT THE INITIATION OF A PROCUREMENT PROGRAM, AND PROVIDE PERIODIC TAPE COPIES OF HIS INTERNAL ACCOUNTING RECORDS DURING THE ACQUISITION PHASE. A SAMPLE PROGRAM WAS SELECTED AS A TEST CASE AND ALL MAJOR TASKS WERE PERFORMED, INCLUDING IN-DEPTH REVIEWS OF THE CONTRACTOR'S ACCOUNTING SYSTEM AND THE PROCUREMENT PROGRAM'S WORK BREAKDOWN STRUCTURE. A SERIES OF SPECIALIZED PAPER REPORTS WERE PRINTED USING A GENERALIZED REPORT-GENERATING PROGRAM WRITTEN FOR THE PROJECT. NO PROBLEMS WERE ENCOUNTERED THAT COULD BE ATTRIBUTED TO THE BASIC CONCEPTS OF THE SYSTEM OR TO THE PRINCIPAL ELEMENTS OF IMPLEMENTATION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 834 5/1
RAND CORP SANTA MONICA CALIF
DEVELOPING CORPORATE STRATEGY THROUGH PLANNING, PROGRAMMING, AND BUDGETING, (U)
OCT 70 17P DOUGHARTY,L. A. ;
REPT. NO. P-4451

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORGANIZATIONS, MANAGEMENT PLANNING), (*INDUSTRIAL RELATIONS, EFFECTIVENESS), DECISION MAKING, BUDGETS, MATHEMATICAL MODELS, FACTOR ANALYSIS, SUBSTITUTES (U)
IDENTIFIERS: *PLANNING PROGRAMMING AND BUDGETING, CORPORATIONS (U)

THE CORPORATION NEEDS A PLANNING FRAMEWORK THAT AIDS IN CLARIFYING OBJECTIVES, IDENTIFYING THE ALTERNATIVES OPEN TO THE FIRM, AND MEASURING THE EFFECTIVENESS OF THOSE ALTERNATIVES TOWARD THE ATTAINMENT OF THE OBJECTIVES OF THE CORPORATION. TO EXAMINE HOW PPB CAN BE OF USE IN THE DEVELOPMENT OF CORPORATE STRATEGY, IT IS NECESSARY TO REVIEW ITS MOST IMPORTANT FEATURES. ONE SUCH REVIEW IS PRESENTED. THE CONCEPTS OF PPB ARE THEN APPLIED IN THE CONSTRUCTION OF A PLANNING FRAMEWORK FOR A CORPORATION. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 946 5/1 12/2
RAND CORP SANTA MONICA CALIF
NOTES ON COMBINATORIAL MATHEMATICS: AN
ESTIMATE OF EXPECTED CRITICAL PATH LENGTH
IN PERT NETWORKS, (U)
OCT 70 36P LINDSEY,JOHN H. , II;
REPT. NO. R-544-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, FLOW CHARTING), COMBINATORIAL ANALYSIS, SET THEORY, RANDOM VARIABLES, APPROXIMATION(MATHEMATICS), DEFENSE SYSTEMS (U)
IDENTIFIERS: *PERT, CRITICAL PATH METHOD (U)

PERT (PROGRAM EVALUATION AND REVIEW TECHNIQUE), A MUCH-USED MANAGEMENT CONTROL TECHNIQUE FOR SCHEDULING AND ADMINISTERING LARGE PROJECTS, HAS BEEN APPLIED TO NUMEROUS DEFENSE PROGRAMS IN WHICH THE PROBLEM OF TREATING SCHEDULE UNCERTAINTIES DURING THE DEVELOPMENT PHASE IS TROUBLESOME. THIS REPORT SUPPLIES A NEW ESTIMATE OF THE EXPECTED TIME REQUIRED TO COMPLETE AN ENTIRE PROJECT, ASSUMING THAT THE TIMES REQUIRED TO CARRY OUT THE VARIOUS SUBPROJECTS ARE UNCERTAIN. A METHOD IS DESCRIBED FOR OBTAINING AN APPROXIMATION OF THE EXPECTED DURATION TIME OF A PROJECT WHOSE INDIVIDUAL JOB TIMES ARE DISCRETE RANDOM VARIABLES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 974 5/1 5/10
MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF
ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS
MULTIPLE ASSESSMENT PROCEDURES IN IDENTIFYING
AND DEVELOPING MANAGERIAL TALENT. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 70 44P DUNNETTE,MARVIN D. ;
REPT. NO. TR-4000
CONTRACT: N00014-66-A-0141-0003
PROJ: NR-152-293

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT ENGINEERING,
ORGANIZATIONS), (*LEADERSHIP, IDENTIFICATION),
INDUSTRIAL RELATIONS, APTITUDE TESTS, BEHAVIOR,
DECISION MAKING, PROBLEM SOLVING, SIMULATION,
JOB ANALYSIS, MATHEMATICAL PREDICTION,
PERSONALITY, STATISTICAL PROCESSES (U)
IDENTIFIERS: *MULTIPLE ASSESSMENT PROCEDURES,
INTERVIEWS (U)

MANAGERS, ADMINISTRATORS AND EXECUTIVES ARE A
CRITICAL NATURAL RESOURCE IN A KNOWLEDGE-ORIENTED,
INDUSTRIAL SOCIETY. PERSONS ABLE TO HANDLE KEY
MANAGERIAL RESPONSIBILITY ARE IN SHORT SUPPLY.
WITHIN THE LAST FIFTEEN YEARS, SEVERAL INDUSTRIAL
FIRMS AND GOVERNMENT UNITS HAVE BEGUN TO UTILIZE
MULTIPLE ASSESSMENT PROCEDURES TO AID IN IDENTIFYING
AND DEVELOPING MANAGERIAL TALENT. THE PAPER
INCLUDES A CONCEPTUAL AND BEHAVIORAL ANALYSIS OF
MANAGERIAL EFFECTIVENESS WITH IMPLICATIONS FOR
MEASURING AND PREDICTING MANAGERIAL EFFECTIVENESS, A
DESCRIPTION OF THE MAJOR FEATURES OF MULTIPLE
ASSESSMENT PROCEDURES AND A COMPREHENSIVE SUMMARY OF
MAJOR RESEARCH FINDINGS RELATED TO MULTIPLE
ASSESSMENT PROCEDURES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-713 975 5/9
MINNESOTA UNIV MINNEAPOLIS CENTER FOR THE STUDY OF ORGANIZATIONAL PERFORMANCE AND HUMAN EFFECTIVENESS
PERSONNEL SELECTION AND JOB PLACEMENT OF THE DISADVANTAGED: ISSUES, PROBLEMS, AND SUGGESTIONS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 70 24P DUNNETTE,MARVIN D. ;
REPT. NO. TR-4001
CONTRACT: N00014-68-A-0141-0003
PROJ: NR-152-293

UNCLASSIFIED REPORT

DESCRIPTORS: (*EMPLOYMENT, MANAGEMENT PLANNING), (*PERSONNEL, SELECTION), (*PERSONNEL MANAGEMENT, DECISION MAKING), PROBLEM SOLVING, JOB ANALYSIS, PERFORMANCE(HUMAN), APTITUDE TESTS, TRAINING, CLASSIFICATION (U)
IDENTIFIERS: *DISADVANTAGED PERSONNEL, *JOB PLACEMENT, DISCRIMINATORY PRACTICES, NEGROES (U)

PROCESSES AND METHODS OF PERSONNEL SELECTION AND JOB PLACEMENT ARE DISCUSSED IN THE CONTEXT OF PROBLEMS RELATED TO THE EMPLOYMENT OF DISADVANTAGED MEMBERS OF THE LABOR FORCE. ISSUES, PROBLEMS, AND SPECIFIC SUGGESTIONS ARE MADE RELATIVE TO DEFINING DIFFERENTIATION AS CONTRASTED WITH UNFAIR DISCRIMINATION IN EMPLOYMENT, INDIVIDUALIZING THE PERSONNEL DECISION PROCESS, DIFFERENTIAL UTILITY OF VARIOUS TYPES AND LEVELS OF DECISION ACCURACY AND/OR ERROR IN MAKING PERSONNEL DECISIONS, IMPLICATIONS OF CURRENT RESEARCH FOR VALIDATING PERSONNEL DECISION PROCEDURES, AND NEW METHODS FOR INTERPRETING STUDIES WHICH SHOW DIFFERENTIAL TEST VALIDITIES BETWEEN DIFFERENT SUBGROUPS OF THE POPULATION. THE PRIMARY ARGUMENT IN THE PAPER IS THAT DECISIONS ABOUT PERSONS, JOBS, AND THEIR INTERACTIONS SHOULD BE BASED ON ALL POSSIBLE INFORMATION ABOUT THE RELATIVE UTILITIES OF DIFFERENT PERSONNEL DECISIONS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 069 15/5 5/1
AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO
OPERATIONS ANALYSIS OFFICE
A PROPOSED MODIFICATION TO THE CRITERIA FOR
SELECTING CRITICAL ITEMS. (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.,
OCT 70 24P PRESUTTI,VICTOR J. , JR.;
KATZ,IRVING (POTTER,LAYMAN J. , JR.;
RAPPAPORT,HERMAN S. ;
REPT. NO. AFLC-OA-TM-12

UNCLASSIFIED REPORT

DESCRIPTORS: (*AIR FORCE EQUIPMENT,
CLASSIFICATION), (*DECISION MAKING, MATHEMATICAL
MODELS), (*AIR FORCE PROCUREMENT, STANDARDS),
OPERATIONS RESEARCH, FACTOR ANALYSIS, MANAGEMENT
PLANNING, SPARE PARTS, COSTS, AIR FORCE BUDGETS,
TIME (U)
IDENTIFIERS: CRITICAL ITEMS, NOT OPERATIONALLY
READY SUPPLY (U)

A MATHEMATICAL MODEL HAS BEEN DEVELOPED FOR USE IN
SELECTING ITEMS TO RECEIVE THE INTENSIVE MANAGEMENT
OF THE CRITICAL ITEM PROGRAM. THE MODEL HAS AS ITS
OBJECTIVE THE MINIMIZATION OF ESSENTIALITY-WEIGHTED
NORS (NOT OPERATIONALLY READY-SUPPLY)
DOWNTIME, SUBJECT TO A COST CONSTRAINT. UNDER THE
ASSUMPTIONS USED IN THE MODEL, A SOLUTION WAS
OBTAINED WHICH REFLECTS OPTIMAL USE OF FUNDS
AVAILABLE FOR PROCUREMENT OF SPARES. AN EMPIRICAL
TEST IS PLANNED, TO TEST THE VALIDITY OF THE MODEL
AND TO MAKE POSSIBLE A 'CALIBRATION' OF THE SCALED
FACTORS IT INTRODUCES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 225 5/1
ARMY MANAGEMENT SCHOOL FORT BELVOIR VA
ARMY MANAGEMENT VIEWS, VOLUME XV, BOOK
II, (U)
SEP 70 240P DAHLGREN,CHARLES W. ;
SUMMERS,MURRAY ;BECKER,EUGENE M. ;BENNEWITZ,
ECKHARD ;GRIBBLE,WILLIAM C. , JR;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO VOLUME 15, BOOK 1. AD-
703 967.

DESCRIPTORS: (*ARMY OPERATIONS, *MANAGEMENT
ENGINEERING), BUDGETS, LEADERSHIP, LOGISTICS,
OPERATIONS RESEARCH, VIETNAM, HOUSING,
INDUSTRIAL RELATIONS, PERSONNEL MANAGEMENT,
ENVIRONMENT, DECISION MAKING, CONTRACTS, WEAPON
SYSTEMS, FACTOR ANALYSIS, MILITARY FACILITIES (U)
IDENTIFIERS: *MANAGEMENT INFORMATION SYSTEMS,
SYSTEMS ANALYSIS (U)

THE DOCUMENT CONTAINS ARTICLES ON MANAGEMENT:
MANAGEMENT AT THE DA LEVEL, MANAGEMENT OF MAJOR
AND INTERMEDIATE ARMY COMMANDS, MANAGEMENT AT AN
ARMY INSTALLATION, FAMILY HOUSING MANAGEMENT,
INDUSTRIAL MANAGEMENT, MANAGEMENT AND OPERATIONS, AND
RESEARCH/SYSTEMS ANALYSIS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 261 5/1
MICHIGAN UNIV ANN ARBOR INST FOR SOCIAL RESEARCH
THE PRACTICE OF ORGANIZATION DEVELOPMENT: A
SELECTIVE REVIEW.
DESCRIPTIVE NOTE: TECHNICAL REPT. 1 OCT 69-1 OCT 70. (U)
OCT 70 67P FRUHMAN,MARK A. ;SASHKIN,
MARSHALL ;
CONTRACT: N00014-67-A-0181-0013
PROJ: NR-170-719

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH STATE
UNIV. OF NEW YORK, BINGHAMTON.

DESCRIPTORS: (*ORGANIZATIONS, TRANSFORMATIONS),
(*INDUSTRIAL PLANTS, MANAGEMENT ENGINEERING),
INDUSTRIAL RELATIONS, STATE-OF-THE-ART REVIEWS,
TRAINING, FEEDBACK, SOCIOMETRICS, SYSTEMS
ENGINEERING, PERSONNEL MANAGEMENT (U)

THE DOCUMENT IS A REVIEW AND INTEGRATION OF THE
MAJOR EMPIRICAL LITERATURE ON ORGANIZATIONAL
DEVELOPMENT PRACTICE. COVERED ARE THE MANAGERIAL
GRID, SURVEY FEEDBACK PROCEDURES, SENSITIVITY
TRAINING, AND SOCIO-TECHNICAL SYSTEMS APPROACHES.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 262 5/1
MICHIGAN UNIV ANN ARBOR INST FOR SOCIAL RESEARCH
THREE STUDIES IN CHANGE II, PART A
PROJECT DEVELOPMENT WITH THE D COMPANY. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
OCT 70 110P IMAN,STEPHEN ;
PROJ: NR-170-719

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORGANIZATIONS, TRANSFORMATIONS), (*INDUSTRIAL PLANTS, GROUP DYNAMICS), MANAGEMENT PLANNING, PERSONNEL MANAGEMENT, LEADERSHIP, EMPLOYEE RELATIONS, INDUSTRIAL TRAINING, FEEDBACK, QUESTIONNAIRES, COST EFFECTIVENESS, STATISTICAL PROCESSES (U)
IDENTIFIERS: ORGANIZATIONAL CHANGE (U)

THE DOCUMENT CONTAINS AN ACCOUNT OF EVENTS TO DATE IN A LONGITUDINAL DEVELOPMENT STUDY IN ONE FIRM. IT REPRESENTS THE FOURTH OF SIX CASES WRITTEN UP AS AN ACCOUNT OF A FIVE-YEAR PROGRAM OF ORGANIZATIONAL CHANGE STUDIES. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 285 5/1 5/3 12/2
ALABAMA UNIV HUNTSVILLE GRADUATE SCHOOL
VALIDATING A METHOD OF MODELING A MAN-
ORGANIZED SYSTEM. (U)
DESCRIPTIVE NOTE: MASTER'S THESIS,
70 139P LUKENS,BOB B. ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*MANAGEMENT PLANNING, MODEL THEORY), (*ECONOMICS, MATHEMATICAL MODELS), REGRESSION ANALYSIS, MATRIX ALGEBRA, STOCHASTIC PROCESSES, INVENTORY CONTROL, UNITED STATES GOVERNMENT, COSTS, COMPUTER PROGRAMS, THESES (U)
IDENTIFIERS: MAN ORGANIZED SYSTEMS, CONTROL THEORY, COMPUTERIZED SIMULATION, SIMCO COMPUTER PROGRAM, FORTRAN, FORTRAN 5 PROGRAMMING LANGUAGE, DEMAND(ECONOMICS), SALES, NETWORK ANALYSIS(MANAGEMENT), DYNAMIC ORGANIZATIONAL NETWORK ANALYSIS, DONA(DYNAMIC ORGANIZATIONAL NETWORK ANALYSIS) (U)

THE MAN-ORGANIZED SYSTEM IS CHARACTERIZED BY ELEMENTS SUCH AS PEOPLE, MATERIAL, MONEY, AND INFORMATION. THE SET OF ELEMENTS TOGETHER WITH THE RELATIONSHIPS, DEFINE THE MAN-ORGANIZED SYSTEM. THE MAN-ORGANIZED SYSTEM TO BE CONSIDERED IN THIS THESIS IS A LARGE GOVERNMENTAL AGENCY. IN GENERAL, THE METHOD OF MODELING DEVELOPED HEREIN IS NOT RESTRICTED TO THIS TYPE OF ORGANIZATION. IT WILL BE SEEN THAT THE METHOD MAY BE APPLICABLE TO OTHER ORGANIZATIONS. IN THE MODELING OF THIS LARGE GOVERNMENTAL AGENCY, IT WAS REQUIRED THAT THE MODELING EFFORT BE PERFORMED IN A REASONABLY SHORT TIME. THE MODEL MUST CHARACTERIZE THE SYSTEM THROUGH USE OF ELEMENTAL QUANTITIES RELATED TO BASIC SYSTEM OPERATION. EVERY VARIABLE IN THE SYSTEM NEED NOT BE ACCOUNTED FOR IN THE MODEL. THIS RESULTS IN A GROSS REPRESENTATION OF THE SYSTEM AND THIS WAS THE DESIRED APPROACH. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 304 5/3 15/6 15/3
URS RESEARCH CO SAN MATEO CALIF
DAMAGE TO THE DRUG INDUSTRY FROM NUCLEAR
ATTACK AND RESULTING REQUIREMENTS FOR REPAIR
AND RECLAMATION. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUL 70 182P STAACKMANN,MILTON ;VAN HORN,
WILLIAM H. ;FOGET,CARL R. ;
REPT. NO. URS-796-4
CONTRACT: DAHC20-70-C-0288
PROJ: OCD-3311D

UNCLASSIFIED REPORT

DESCRIPTORS: (*INDUSTRIAL PLANTS, NUCLEAR EXPLOSION
DAMAGE), (*NUCLEAR WARFARE, *INDUSTRIES),
(*DRUGS, INDUSTRIAL PLANTS), MATHEMATICAL
MODELS, CIVIL DEFENSE SYSTEMS, RECOVERY,
MAINTENANCE, COSTS, PENICILLINS, SULFUR
COMPOUNDS, MANAGEMENT PLANNING (U)
IDENTIFIERS: DRUG INDUSTRY, POST ATTACK
OPERATIONS, PREATTACK PLANNING (U)

THE STUDY IDENTIFIES THE PROCESSES AND EQUIPMENT
COMMONLY USED BY INDUSTRIES OF THE DRUG GROUP,
SELECTS DRUGS REPRESENTATIVE OF THOSE DEEMED TO BE
LIFESAVING IN THE POSTATTACK PERIOD, ESTIMATES DAMAGE
TO DRUG INDUSTRY EQUIPMENT RESULTING FROM NUCLEAR
WEAPON ATTACK, AND ESTIMATES THE CONSEQUENT REPAIR
REQUIREMENTS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 308 13/1 13/13 15/3
GENERAL AMERICAN TRANSPORTATION CORP NILES ILL GENERAL AMERICAN RESEARCH DIV
SHELTER OCCUPANCY STUDIES OF VENTILATOR UTILIZATION. (U)
DESCRIPTIVE NOTE: FINAL REPT. JUN 68-JUN 69, JUL 70 225P ANDERSON,J. A. ;JAGO,A. G. ;FRIEDMAN,R. C. ;
REPT. NO. GARD-1480-F
CONTRACT: DAHC20-68-C-0123
PROJ: OCD-1522B

UNCLASSIFIED REPORT

DESCRIPTORS: (*FALLOUT SHELTERS, VENTILATION), (*CIVIL DEFENSE SYSTEMS, FALLOUT SHELTERS), COOLING + VENTILATING EQUIPMENT, INSTRUCTION MANUALS, MANAGEMENT ENGINEERING, PERFORMANCE(HUMAN), ASSEMBLING, CONFINED ENVIRONMENTS (U)
IDENTIFIERS: *SHELTER MANAGEMENT (U)

THE REPORT DESCRIBES THREE SHELTER OCCUPANCY EXPERIMENTS DESIGNED TO INVESTIGATE SHELTER MANAGEMENT PROBLEMS INVOLVING SHELTEREE NEEDS AND RESPONSES, CONTROL OF THE SHELTER ENVIRONMENT, SHELTER ORGANIZATION, AND THE OPERATION OF SHELTER VENTILATION EQUIPMENT. RECOMMENDATIONS FROM THE THREE HABITABILITY STUDIES MODIFIED BOTH VENTILATOR DESIGN AND INSTRUCTION MATERIAL. THE FINAL VERSION OF THE ASSEMBLY, DEPLOYMENT AND OPERATING INSTRUCTIONS ARE INCLUDED IN THE REPORT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 309 12/2 5/1
NORTH CAROLINA STATE UNIV RALEIGH
THE THEORY OF NETWORKS AND MANAGEMENT
SCIENCE. PART I. (U)
MAR 70 34P ELMAGHRABY,SALAH E. ;
CONTRACT: NONR-4004(00), DA-49-092-ARO-16

UNCLASSIFIED REPORT
AVAILABILITY: PUB. IN MANAGEMENT SCIENCE, V17 N1
P1-34 SEP 70.
SUPPLEMENTARY NOTE: REVISION OF REPORT DATED JAN 68.

DESCRIPTORS: (*MANAGEMENT PLANNING, FLOW
CHARTING), MATRIX ALGEBRA, SET THEORY,
SEQUENCES, OPTIMIZATION, GRAPHICS (U)
IDENTIFIERS: *NETWORK FLOWS, PERT, GRAPH
THEORY (U)

AN EXPOSITORY TREATMENT OF THREE NETWORK MODELS MOST OFTEN ENCOUNTERED IN MANAGEMENT SCIENCE APPLICATIONS: THE SHORTEST PATH PROBLEMS; FLOW NETWORKS; AND ACTIVITY NETWORKS. IN THE FIRST PROBLEM ARE DISCUSSED THE SHORTEST PATH BETWEEN TWO SPECIFIED NODES; THE SHORTEST DISTANCE MATRIX; AS WELL AS THE SPECIAL CASE OF DIRECTED ACYCLIC NETWORKS. IN THE SECOND PROBLEM, A BRIEF EXPOSITION OF THE LABELING PROCEDURE LEADS INTO MULTITERMINAL NETWORKS AND THE GENERAL MINIMAL COST CIRCULATION PROBLEM AND A DISCUSSION OF THE OUT-OF-KILTER METHOD. IN THE THIRD PROBLEM, THE CLASSICAL MODELS OF CPM AND PERT ARE REVIEWED, TOGETHER WITH A DISCUSSION OF GENERALIZED ACTIVITY NETWORKS AND THE VIEWING OF GERT AS A SIGNAL FLOW GRAPH OF A SEMI-MARKOV PROCESS. ILLUSTRATIONS OF THE APPLICATION OF EACH MODEL ARE ALSO GIVEN. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 331 15/5 12/2
RAND CORP SANTA MONICA CALIF
NETWORK EVALUATION OF COMPLEX TRANSPORTATION SYSTEMS. (U)
OCT 70 15P SMITH,KEITH V. ;PHILLIPS, CHARLES T. ;LEWIS,RALPH J. ;
REPT. NO. P-4470

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT AMERICAN MEETING OF THE INSTITUTE OF MANAGEMENT SCIENCE (11TH), LOS ANGELES, CALIF.

DESCRIPTORS: (*TRANSPORTATION, OPERATIONS RESEARCH), MANAGEMENT PLANNING, MATRIX ALGEBRA, PASSENGER VEHICLES, RAILROADS, AIR TRANSPORTATION, ALGORITHMS (U)
IDENTIFIERS: *NETWORK FLOWS, ROUTING, SHORTEST PATH METHOD (U)

TRANSPORTATION IS RECOGNIZED AS A CRITICAL PROBLEM BOTH AT THE LOCAL AND THE NATIONAL LEVEL. IN ANALYZING THE TRANSPORTATION PROBLEM AND IN REVIEWING THE HOST OF RELEVANT RESEARCH STUDIES THAT HAVE BEEN CONDUCTED IN RECENT YEARS, ONE BEGINS TO COMPREHEND THE COMPLEXITY OF ENTITIES, VARIABLES, PARAMETERS, AND MEASUREMENT PROBLEMS THAT CHARACTERIZE THE FIELD OF TRANSPORTATION. WHILE SOME STUDIES HAVE SACRIFICED BREADTH OF COVERAGE IN FAVOR OF A DEPTH OF ANALYSIS, OTHER STUDIES HAVE ATTEMPTED TO SYNTHESIZE SEVERAL METHODS INTO A COMPREHENSIVE EXAMINATION OF TRANSPORTATION PROBLEMS. OF INTEREST HERE IS A METHODOLOGY THAT FEATURES BOTH DEPTH AND BREADTH OF ANALYSIS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 332 5/1
RAND CORP SANTA MONICA CALIF
A SUGGESTION ON THE POSITIVE THEORY OF
REDISTRIBUTION. (U)
OCT 70 7P NEWHOUSE,JOSEPH P. ;
REPT. NO. P-4490

UNCLASSIFIED REPORT

DESCRIPTORS: (*FEDERAL BUDGETS,
DISTRIBUTION(ECONOMICS)), (*MONEY,
SUBSTITUTES), MANAGEMENT PLANNING, DECISION
MAKING, ECONOMICS, PUBLIC RELATIONS, POLITICAL
SCIENCE, EFFECTIVENESS, THEORY (U)
IDENTIFIERS: REDISTRIBUTION IN KIND, GOVERNMENT
POLICIES (U)

IT IS THE ARGUMENT OF THE PAPER THAT CERTAIN
CHARACTERISTICS OF THE POLITICAL PROCESS CAN HELP
EXPLAIN WHY SO MANY PROGRAMS WHICH REDISTRIBUTE IN
KIND EXIST. ONE OF THE ADVANTAGES OF THIS WAY OF
LOOKING AT THINGS IS THAT NON-TAUTOLOGICAL
PREDICTIONS ABOUT THE OUTPUT OF THE POLITICAL PROCESS
EMERGE. THE REQUIREMENT THAT A CONSENSUS EMERGE IN
ORDER FOR A PROGRAM TO BE ADOPTED MAY HELP EXPLAIN
WHY SO MANY PROGRAMS WHICH REDISTRIBUTE IN KIND
EXIST. THE EASE OF FORMING SUCH A CONSENSUS IS
RELATED TO THE NUMBER OF POSSIBLE ALTERNATIVES.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 333 5/2
RAND CORP SANTA MONICA CALIF
THE SIMPLE THEORY OF PUBLIC LIBRARY
SERVICES. (U)
OCT 70 15P NEWHOUSE,JOSEPH P. ;
REPT. NO. P-4206-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*LIBRARIES, *MANAGEMENT PLANNING),
PROCUREMENT, COSTS, THEORY (U)
IDENTIFIERS: BOOKS, *PUBLIC LIBRARY SERVICES,
*BENEFIT COST ANALYSIS (U)

A SIMPLE NORMATIVE THEORY APPLICABLE TO PUBLIC LIBRARY SERVICES IS PRESENTED. THE THEORY WAS DEVELOPED AS A TOOL TO AID LIBRARIES IN ANSWERING THE QUESTION: WHICH BOOKS SHOULD BE BOUGHT BY THE LIBRARY. ALTHOUGH DEVELOPED FOR NORMATIVE PURPOSES, THE THEORY GENERATES TESTABLE PREDICTIONS. FURTHER, THE THEORY IS APPLICABLE TO A NUMBER OF PUBLIC SERVICES SUCH AS NEIGHBORHOOD HEALTH CENTERS WHERE THE INDIVIDUAL HAS THE OPTION OF BUYING A SIMILAR SERVICE ON THE MARKET. IN PARTICULAR, THE THEORY IS RELEVANT TO MEASURING BENEFITS FROM SERVICES WHICH ARE PROVIDED PUBLICLY BECAUSE WHEN 'UNCROWDED' THEY HAVE ZERO MARGINAL COST (LIBRARY BOOKS, SWIMMING POOLS) OR BECAUSE THE MARKET MAY BE MONOPOLISTIC (LIBRARY BOOKS, HEALTH SERVICES). THE THEORY IS DEVELOPED IN THE CONTEXT OF THE LIBRARY. (AUTHOR) (U)

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 367 15/5 5/1
ARMY ADVANCED MATERIEL CONCEPTS AGENCY ALEXANDRIA VA
ANALYTICAL TECHNIQUES FOR LOGISTICS
MANAGEMENT.
DESCRIPTIVE NOTE: FINAL REPT., (U)
OCT 70 140P BAKER,RICHARD J. ;
REPT. NO. AMCA-71-007

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT OF AD HOC WORKING GROUP NO. 13.

DESCRIPTORS: (*COMBAT INFORMATION CENTERS, MANAGEMENT ENGINEERING), (*LOGISTICS, MANAGEMENT ENGINEERING), SYSTEMS ENGINEERING, DATA PROCESSING SYSTEMS, TECHNICAL INFORMATION CENTERS, PROGRAMMING(COMPUTERS), DISPLAY SYSTEMS, FACTOR ANALYSIS, ORGANIZATIONS, AUTOMATION, MATHEMATICAL MODELS, INFORMATION RETRIEVAL (U)
IDENTIFIERS: *LOGISTICS MANAGEMENT, *MANAGEMENT INFORMATION SYSTEMS (U)

THE REPORT PRESENTS A CONCEPTUAL DESIGN OF A COMBAT SERVICE SUPPORT MANAGEMENT INFORMATION SYSTEM AND CONTROL CENTER FOR THE 1990'S. ALSO INCLUDED IN THIS REPORT ARE A DESCRIPTION OF THE ANALYTICAL TECHNIQUES TO BE EMPLOYED, METHODS TO BE USED TO DETERMINE WHAT MANAGEMENT INFORMATION IS RELEVANT, THE OVERALL CAPABILITY OF THE SYSTEM, AND THE PERFORMANCE CHARACTERISTICS AND CONTRIBUTION OF THE DISPLAY SUBSYSTEM. THESE RESULTS CONTRIBUTED TO AN ON-GOING STUDY THAT WILL CULMINATE IN THE CONCEPTUAL DESIGN OF A TRANSPORTABLE CONTROL CENTER FOR THEATER LEVEL MANAGEMENT OF COMBAT SERVICE SUPPORT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 497 12/2
CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP
STOCHASTIC GROWTH MODELS. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
MAR 70 33P KAPLAN,ROBERT S. ;
REPT. NO. RR-196
CONTRACT: NONR-760(24)
PROJ: NR-047-048

UNCLASSIFIED REPORT

DESCRIPTORS: (*DYNAMIC PROGRAMMING, MATHEMATICAL MODELS), (*MANAGEMENT PLANNING, STOCHASTIC PROCESSES), DECISION THEORY, RANDOM VARIABLES, SET THEORY (U)
IDENTIFIERS: GROWTH MODELS, FARM MANAGEMENT, INVESTMENTS, CASH FLOW, ASSETS (U)

GROWTH PERIOD MODELS, PREVIOUSLY TREATED IN THE LITERATURE, HAVE ASSUMED THAT THE PATTERN OF VALUE INCREASE OF THE GROWTH ASSET IS DETERMINISTIC. IN THIS PAPER, THIS ASSUMPTION IS RELAXED BY CONSIDERING MODELS IN WHICH THE INCREASE IN VALUE OF AN ASSET IN A PERIOD IS A RANDOM VARIABLE WHOSE DISTRIBUTION IS A FUNCTION OF EITHER THE VALUE OR THE AGE OF THE ASSET AT THE START OF THE PERIOD. THE EXPECTED INCREASE IN VALUE IS A DECREASING FUNCTION OF THE VALUE OR AGE OF THE ASSET SO THAT THE VALUE OF ADDITIONAL MATURATION TIME DECREASES AS THE ASSET AGES. DYNAMIC PROGRAMMING IS USED TO COMPUTE OPTIMAL POLICIES AS TO WHEN STOCHASTIC GROWTH ASSETS SHOULD BE HARVESTED. THE STEADY STATE VALUE FUNCTION IS SHOWN TO BE DIRECTLY ANALOGOUS TO THAT OBTAINED WHEN DETERMINISTIC GROWTH IS ASSUMED. PROCEDURES FOR QUICKLY COMPUTING BOTH STEADY STATE POLICIES AND VALUE FUNCTIONS ARE DEVELOPED. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /2AHK6

AD-714 527 15/5 9/1
DECISION STUDIES GROUP PALO ALTO CALIF
BUDGET ALLOCATION PROCEDURES FOR NAVAL
AIRCRAFT GROUND SUPPORT EQUIPMENT. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
OCT 70 68P JANUETTE,STRATTON C. ;MOREY,
RICHARD C. ;
REPT. NO. R-135-1
CONTRACT: N00014-70-C-0119
PROJ: NR-047-093

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL AIRCRAFT, GROUND SUPPORT
EQUIPMENT), (*ARMED FORCES BUDGETS, DECISION
MAKING), NAVAL PROCUREMENT, MANAGEMENT PLANNING,
STATISTICAL DATA, MATHEMATICAL MODELS,
PROGRAMMING(COMPUTERS), CLASSIFICATION (U)
IDENTIFIERS: INVENTORY MODELS (U)

THE REPORT CONSIDERS THE PROBLEM OF ALLOCATING
LIMITED FUNDS TO MAINTAIN ADEQUATE INVENTORIES OF
NAVAL AIRCRAFT SUPPORT EQUIPMENT. THE PROBLEM OF
RESOURCE ALLOCATION IS DISCUSSED AS WELL AS OTHER
PROBLEMS PERTAINING TO A PRACTICAL PROCEDURE FOR
ALLOCATING FUNDS AND MAKING PROCUREMENTS. SEVERAL
ALLOCATION STRATEGIES ARE DISCUSSED, AND NUMERICAL
COMPARISONS OF THESE STRATEGIES ARE PRESENTED BASED
ON AN ACTUAL SAMPLE OF GROUND SUPPORT EQUIPMENT.
THE REPORT ALSO CONSIDERS SPECIFIC DATA NEEDS AND
SOURCES FOR THE PARTICULAR SYSTEM STUDIED.
APPENDICES GIVE DETAILED MATHEMATICAL TREATMENT OF
THE INVENTORY MODELS USED IN THE BUDGET ALLOCATION
AND ITEM PROCUREMENT PROCEDURES PROPOSED.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 586 15/5
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF
INVENTORY POLICY EVALUATION SIMULATION. (U)
DESCRIPTIVE NOTE. TECHNICAL REPT.;
SEP 70 71P FREE,W. DEAN ;SCHRADY,
DAVID A. ;
REPT. NO. NPS-55-FSS00091A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT TO REPORT DATED JUL 70,
AD-711 002.

DESCRIPTORS: (*INVENTORY, MANAGEMENT CONTROL
SYSTEMS), MATHEMATICAL MODELS,
PROGRAMMING(COMPUTERS), SIMULATION, FLOW
CHARTING, STATISTICAL PROCESSES, FACTOR ANALYSIS,
STOCK LEVEL CONTROL, LOGISTICS, MANAGEMENT
PLANNING (U)
IDENTIFIERS: COMPUTER MODELS, COMPUTERIZED
SIMULATION, DEMAND(ECONOMICS), POISSON DENSITY
FUNCTIONS (U)

THE REPORTIS A COMPANION TO THE REPORT, 'ANALYSIS
OF INVENTORY RECORD ACCURACY' AND SUPPLEMENTS
THAT REPORT BY PROVIDING DETAILED INFORMATION ABOUT
THE SIMULATION MODEL EMPLOYED. THE MODEL IS
DESCRIBED, A PROGRAMMING GUIDE IS PROVIDED, AND THE
PROGRAM AND ITS FLOW CHARTS ARE GIVEN.
(AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 639 15/5 5/1
ARMY LOGISTICS DOCTRINE SYSTEMS AND READINESS AGENCY
HARRISBURG PA
DEVELOPMENT OF DIVISION LOGISTICS SYSTEM.
COUNTRY STORE PROCEDURES. (U)
JUL 70 54P WENNERGREN,V. JAMES :

UNCLASSIFIED REPORT

DESCRIPTORS: (*LOGISTICS, MILITARY ORGANIZATIONS), (*SPACE PARTS, INVENTORY CONTROL), MAINTENANCE, ARMY PROCUREMENT, REPLACEMENT THEORY, SELECTION, STOCK LEVEL CONTROL, STORAGE, DEVELOPMENT, MANAGEMENT ENGINEERING, REPORTS, RECORDS (U)
IDENTIFIERS: COUNTRY STORE LOGISTICS CONCEPT (U)

THE STOCK ACCOUNTING WORKLOAD ASSOCIATED WITH REPAIR PARTS SUPPLY, AT THE DIRECT SUPPORT LEVEL, CAN BE SUBSTANTIALLY REDUCED THROUGH USE OF A DEPARTMENT OF THE ARMY APPROVED TECHNIQUE CALLED "COUNTRY STORE". THE STUDY SPELLS OUT COUNTRY STORE CONCEPTS APPLICABLE TO BOTH DIVISIONAL AND NON-DIVISIONAL DIRECT SUPPORT DIRECT SUPPORT UNITS IN EITHER A MANUAL OR AUTOMATED ENVIRONMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 640 15/5
ARMY LOGISTICS DOCTRINE SYSTEMS AND READINESS AGENCY
HARRISBURG PA
DEVELOPMENT OF DIVISION LOGISTICS SYSTEM.
DIRECT EXCHANGE PROCEDURES, (U)
OCT 70 33P WENNERGREEN,V. JAMES ;
PROJ: LDSRA-68-010

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY OPERATIONS, LOGISTICS),
(*SPARE PARTS, MAINTENANCE), REPLACEMENT THEORY,
MANAGEMENT PLANNING, SYSTEMS ENGINEERING, TEST
METHODS, STATISTICAL PROCESSES, RECORDS (U)
IDENTIFIERS: LOGISTICS MANAGEMENT, *REPARABLE
PARTS, DIRECT EXCHANGE (U)

THE HANDLING OF THE WORKLOAD ASSOCIATED WITH TURN-
IN AND ISSUE OF CERTAIN REPARABLE PARTS CAN BE
REDUCED AND EFFICIENCY OF MAINTENANCE IMPROVED
THROUGH USE, AT THE DIRECT SUPPORT UNIT (DSU)
LEVEL, OF A DEPARTMENT OF DEFENSE AND
DEPARTMENT OF THE ARMY APPROVED TECHNIQUE CALLED
'DIRECT EXCHANGE'. THIS STUDY SPELLS OUT DIRECT
EXCHANGE CONCEPTS APPLICABLE TO DIVISIONAL DSU'S IN
AN AUTOMATED ENVIRONMENT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 860 5/1
INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV
CASE STUDIES OF ONR-SUPPORTED RESEARCH. (U)
DESCRIPTIVE NOTE: RESEARCH PAPER,
OCT 70 95P SALKOVITZ,EDWARD I. ;
ARMSTRONG,RONALD W. ;HOWE,JOHN P. ;
REPT. NO. RP-P-645
CONTRACT: DAHC15-67-C-0011
MONITOR: IDA/HQ 70-11545

UNCLASSIFIED REPORT

DESCRIPTORS: (*RESEARCH PROGRAM ADMINISTRATION, EFFECTIVENESS), MANAGEMENT ENGINEERING, MOLYBDENUM, REFRACTORY METALS, BORON, INORGANIC POLYMERS, CRYOGENICS, DISLOCATIONS (U)

THE PURPOSE OF THE PAPER IS TO IMPROVE KNOWLEDGE ABOUT THE CONDUCT OF BASIC RESEARCH PROGRAMS ON THE BASIS OF EXPERIENCE GATHERED IN FOUR MATERIAL SCIENCE PROGRAMS: (1) MOLYBDENUM AND OTHER REFRACTORY METALS; (2) BORON COMPONENTS AND INORGANIC POLYMERS; (3) CRYOGENICS; (4) DISLOCATIONS. THE HISTORICAL BEGINNINGS OF THESE PROGRAMS ARE DISCUSSED; THE DEVELOPMENT AND EVOLUTION OF THE PROGRAMS AND THEIR EVENTUAL TECHNOLOGICAL AND SCIENTIFIC IMPORTANCE ARE REVIEWED. IT IS FOUND THAT ALL FOUR PROGRAMS WERE WELL SELECTED AND WELL MANAGED; THAT INTERACTION WITH THE ACADEMIC COMMUNITY WAS CONSIDERABLE; THAT THE FOUR PROGRAMS HAD GREAT IMPACT ON UNIVERSITY CURRICULA; THAT TECHNOLOGY HAS BENEFITED; THAT THE RESEARCH WAS SOUND AND ATTRACTED OUTSTANDING RESEARCHERS; AND THAT THE PROGRAM TRAINED STUDENTS WHO HAVE DEVELOPED TO BECOME MANAGERS IN DOD, NSF, AEC, AND NASA. IT IS CONCLUDED THAT IT MAY BE POSSIBLE TO DEFINE AND UTILIZE CRITERIA TO MEASURE PROBABLE SUCCESS OF A PLANNED RESEARCH PROGRAM. IT IS ALSO CONCLUDED THAT THE DETERMINATION OF SEQUENTIAL STEPS AND GOALS IS NECESSARY TO A SUCCESSFUL PROGRAM AND THAT IT IS POSSIBLE TO DETERMINE WHEN A RESEARCH PROGRAM SHOULD BE TERMINATED. IT IS FURTHER CONCLUDED THAT ADEQUATE COMMUNICATION BETWEEN SCIENCE RESEARCHER AND POTENTIAL USER OF NEW KNOWLEDGE DOES NOT NOW EXIST. IT IS RECOMMENDED THAT NEW MECHANISMS SHOULD BE ESTABLISHED WHEREBY SCIENTISTS AND ENGINEERS EXCHANGE INFORMATION AND HELP TO GUIDE RESEARCH PROGRAMS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-714 934 5/1 12/2
ROCHESTER UNIV N Y MANAGEMENT RESEARCH CENTER
WHEN PLANNING FOR OTHERS. (U)
70 23P BASS,BERNARD M. I

UNCLASSIFIED REPORT
AVAILABILITY: PUB. IN JNL. OF APPLIED BEHAVIORAL SCIENCE, V6 N2 P151-171 1970.
SUPPLEMENTARY NOTE: SPONSORED IN PART BY OFFICE OF NAVAL RESEARCH, ARLINGTON, VA.

DESCRIPTORS: (*MANAGEMENT PLANNING, PRODUCTION CONTROL), OPERATIONS RESEARCH, DECISION MAKING, PREDICTIONS, ERRORS, PROBABILITY (U)
IDENTIFIERS: *SYSTEMS ANALYSIS (U)

THE SYSTEMS ANALYSTS PRESENTED A MATHEMATICALLY OPTIMUM PLAN TO THE MANAGEMENT, BUT THE PLAN IS STILL NOT OPERATIONAL. THE PLANS FOR PRODUCTION CALL FOR 720 UNITS PER DAY, BUT THE FOREMAN REPORTS AVERAGING ONLY 580 UNITS DAILY. THE FINANCE COMMITTEE AGREED TO SEEK ADVICE ON INVESTMENT STRATEGY, BUT WOULD NOT FOLLOW IT WHEN IT WAS GIVEN. THE STAFF PROPOSALS WERE SUMMARILY REJECTED BY LINE MANAGEMENT AS LACKING IN PRACTICALITY. IN THE TEXT THAT FOLLOWS, A CLOSE LOOK WILL BE TAKEN AT THESE AND OTHER REASONS FOR THE FAILURE OF PLANS TO BE CARRIED OUT, AND HOW THE LIKELIHOOD OF SUCH FAILURES MIGHT BE REDUCED WHEN PLANNING FOR OTHERS. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-715 002 15/5 12/2 5/1
FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING
DERIVATION AND SIMULATION OF AN ORDERING RULE FOR THE MULTI-ECHELON SUPPLY CHAIN. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 70 39P BURNS,J. F. ;
REPT. NO. THEMIS-UF-TR-45
CONTRACT: DAHC04-68-C-0002
MONITOR: AROD T-1:62-RT

UNCLASSIFIED REPORT

DESCRIPTORS: (*INVENTORY CONTROL, MATHEMATICAL MODELS), MANAGEMENT PLANNING, DECISION THEORY, SERVOMECHANISMS, STATISTICAL ANALYSIS, FLOW CHARTING, SIMULATION (U)
IDENTIFIERS: THEMIS PROJECT, CONTROL THEORY (U)

THE PAPER INVESTIGATES THE DYNAMIC RESPONSE OF A MULTI-ECHELON SUPPLY CHAIN TO VARIOUS DEMANDS PLACED UPON THE SYSTEM BY A FINAL CONSUMER. WHEN EACH SUPPLY POINT IN THE CHAIN USES A TYPICAL LINEAR DECISION RULE FOR PLACING ORDERS, IT IS SHOWN THAT THE SYSTEM AMPLIFIES MINOR VARIATIONS IN CONSUMER DEMAND INTO MAJOR DISTURBANCES AT HIGHER ECHELONS. THIS AMPLIFICATION IS TRACED TO TWO SOURCES, ONE BEING A LEGITIMATE AND UNAVOIDABLE INVENTORY ADJUSTMENT AND THE OTHER BEING AN UNWARRANTED 'FALSE ORDER' EFFECT. A NEW DECISION RULE IS DERIVED WHICH AUTOMATICALLY SUPPRESSES THESE FALSE ORDERS. THE TWO DECISION RULES ARE COMPARED IN A THREE-ECHELON SIMULATION MODEL, AND THE REVISED RULE EXPERIENCED FEWER STOCKOUTS, MAINTAINED LOWER AVERAGE INVENTORY, AND GREATLY REDUCED THE AMPLIFICATION EFFECT. (AUTHOR) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAMK6

AD-715 124 17/2 5/1 9/3 9/2
GENERAL DYNAMICS/ELECTRONICS SAN DIEGO CALIF
STUDY OF ELECTRONIC HANDLING OF MAIL.
COMPLETION REPORT FOR WORK TASK 9. VALUE/
SANCTITY. (U)
JUN 70 117P
REPT. NO. R-69-046-9
CONTRACT: RER-30-70

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-715 123.

DESCRIPTORS: (*UNITED STATES GOVERNMENT, *COMMUNICATION SYSTEMS), (*DATA TRANSMISSION SYSTEMS, ELECTRONIC EQUIPMENT), (*DATA PROCESSING SYSTEMS, MANAGEMENT PLANNING), VALUE ENGINEERING, TIME, INDUSTRIAL RELATIONS, DIGITAL SYSTEMS, CODING, SCRAMBLING, CRYPTOGRAPHY, MULTIPLEX (U)
IDENTIFIERS: VALUE SANCTITY ASSESSMENT, SECURITY, *MAIL, *ELECTRONIC MAIL HANDLING (U)

THE STUDY TAKES THE FIRST STEP IN EXAMINING AND ASSESSING THE FACTORS THAT ARE INVOLVED IN THE USE OF ELECTRONIC TECHNOLOGY TO HANDLE AND TRANSMIT THE MAIL. THE REPORT IS DIVIDED INTO SEVERAL SECTIONS. THE FIRST SECTION DISCUSSES THE GENERAL CLASSES OF MAIL AS DEFINED BY THE POST OFFICE DEPARTMENT, AND THE FUNDAMENTAL CONCEPTS NEEDED TO ASSESS THE VALUE OF THE CONTENTS OF LETTER MAIL, AND A DESCRIPTION OF AN EMH SYSTEM AND ITS INHERENT SECURITY. THE SECOND SECTION CONTAINS A GENERAL DISCUSSION OF THE CONCEPT OF THE VALUE OF A LETTER AND HOW ONE CAN OBTAIN QUANTITATIVE MEASURES THEREOF. METHODS AND PROCEDURES USED IN COLLECTING AND ANALYZING THE DATA ARE DESCRIBED. MANY OF THE FACTORS THAT HAVE TO BE CONSIDERED IN ASSESSING THE SECURITY OF THE PROPOSED ELECTRONIC MAIL HANDLING (EMH) SYSTEM ARE THEN DISCUSSED. (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. /ZAHK6

AD-715 251 5/11 5/5
RAND CORP SANTA MONICA CALIF
COMMENTS ON CYBERNETICS AND MANAGEMENT OF
LARGE SYSTEMS. (U)
MAR 70 10P DELAND,E. C. ;
REPT. NO. P-4303

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT A SYMPOSIUM ON GLOBAL SYSTEMS DYNAMICS, SPONSORED BY THE VIRGINIA UNIV., CHARLOTTESVILLE, VA., SCHOOL OF MEDICINE, 17-19 JUN 69.

DESCRIPTORS: (*CYBERNETICS, SYSTEMS ENGINEERING), (*MANAGEMENT ENGINEERING, REVIEWS), SOCIOMETRICS, CULTURE, ORGANIZATIONS, CONTROL SYSTEMS, AUTOMATION, HUMAN ENGINEERING (U)

THE DOCUMENT COMMENTS ON THE PREMISE THAT A TECHNOLOGIST HAS A CITIZEN'S RESPONSIBILITY TO CONTRIBUTE TO AND ATTEMPT TO DEVELOP A RATIONAL SOCIAL STRUCTURE. AT THE SAME TIME THERE MUST BE A WAY TO LEAVE RESPONSIBLE ROOM FOR THE ARTS AND LETTERS, FOR HUMAN NEEDS AND FEELINGS, FOR HUMAN FALLIBILITY, AND FOR HUMAN GENIUS. IN SHORT, THERE MUST BE A WAY FOR HUMANS LIVING WITHIN A TECHNOLOGICAL SOCIETY TO MAINTAIN THE UPPER-HAND OVER THE MACHINE AND OVER THE ORGANIZATION. (AUTHOR) (U)

CORPORATE AUTHOR - MONITORING AGENCY

•AERONAUTICAL CHART AND INFORMATION CENTER ST LOUIS MO

• • •

ACIC-TECHNICAL PAPER-23
COPY THROUGH PRINTING REGISTRATION SYSTEM (FOR THE LITHOGRAPHIC PROCESS),
AD-701 284

•AIR FORCE FLIGHT DYNAMICS LAB WRIGHT-PATTERSON AFB OHIO

• • •

A MANAGEMENT TECHNIQUE FOR IN-HOUSE RESEARCH PROGRAMS,
AD-711 382

•AIR FORCE HUMAN RESOURCES LAB LACK AND AFB TEX PERSONNEL RESEARCH D

• • •

AFHRL-TR-70-10
RELIABILITY OF INDIVIDUAL VERSUS GROUP JOB PAY RATINGS,
AD-708 729

•AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO OPERATIONS ANALYSIS OFFICE

• • •

AFLC-OA-TN-12
A PROPOSED MODIFICATION TO THE CRITERIA FOR SELECTING CRITICAL ITEMS.
AD-714 049

• • •

OAR-8-SUPPL-1
PROJECT ABLE APPLIED TO AIRCRAFT ENGINE DEVELOPMENT AND PROCUREMENT.
AD-700 984

• • •

OAR-8-SUPPL-2
PROJECT ABLE AND PA[illegible]CL DEVELOPMENT.
AD-707 891

• • •

OAR-10
PREDICTIVE TECHNIQUES STUDY. PHASE I. COMPARISON OF SOME FORECAST METHODS.
AD-706 088

•AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARLINGTON VA

• • •

AFOSR-70-0947TR
CRITERIA FOR THE DESIGN OF NEW FORMS OF ORGANIZATION.
AD-705 702

•ALABAMA UNIV HUNTSVILLE GRADUATE SCHOOL

• • •

VALIDATING A METHOD OF MODELING A MAN-ORGANIZED SYSTEM.
AD-714 285

•AMERICAN INSTITUTES FOR RESEARCH PITTSBURGH PA

• • •

AIR-77803-8/70-FR
REQUIREMENTS FOR SIMULATED OCCUPANCY CONDITIONS OF LARGE PROTECTIVE SHELTERS.
AD-713 020

•ARMY ADVANCED MATERIEL CONCEPTS AGENCY ALEXANDRIA VA

• • •

AMCA-71-007
ANALYTICAL TECHNIQUES FOR LOGISTICS MANAGEMENT.
AD-714 767

•ARMY ADVANCED MATERIEL CONCEPTS AGENCY WASHINGTON D C

• • •

AMCA-71-004
THE MAN-MACHINE INTERFACE FOR 1990 MANAGEMENT INFORMATION SYSTEM DISPLAYS,
AD-712 998

•ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

• • •

USAAVSCOM-TR-70-14
DECISION ANALYSES USING PRESENT VALUE TECHNIQUES.
AD-713 002

•ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

* * *
A STUDY OF DATA INPUT PROBLEMS WITHIN THE ARMY PERSONNEL INFORMATION SYSTEM.
AD-713 979

•ARMY LOGISTICS DOCTRINE SYSTEMS AND READINESS AGENCY HARRISBURG PA

* * *
DEVELOPMENT OF DIVISION LOGISTICS SYSTEM. COUNTRY STORE PROCEDURES.
AD-714 639

* * *
DEVELOPMENT OF DIVISION LOGISTICS SYSTEM. DIRECT EXCHANGE PROCEDURES.
AD-714 640

•ARMY LOGISTICS MANAGEMENT CENTER FORT LEE VA

* * *
COMPUTING EXPECTED VALUES OF CUSTOMER REQUESTS BACKORDERED.
AD-701 172

* * *
OPTIMAL MULTI-ECHELON STOCKAGE POLICIES WITH CONSTRAINTS.
AD-701 890

* * *
COST-MINIMIZING INVENTORY CONTROL OF ITEMS HAVING A SPECIAL TYPE OF ERRATIC DEMAND PATTERN.
AD-703 872

* * *
USALMC-B5000-3-70-REV
INSURANCE ITEMS STOCKAGE POLICIES.
AD-702 062

•ARMY MANAGEMENT SCHOOL FORT BELVOIR VA

* * *
ARMY MANAGEMENT VIEWS, VOLUME IV, BOOK I.
AD-703 967

* * *
ARMY MANAGEMENT VIEWS, VOLUME IV, BOOK II.
AD-714 229

•ARMY RESEARCH OFFICE DURHAM N C

* * *
AROD-6368.7-M
A UNIFIED APPROACH TO THE THEORY OF ACCOUNTING AND INFORMATION SYSTEMS.
AD-704 962

* * *
AROD-6368.9-M
A LINEAR PROGRAMMING APPROACH TO AIRPORT CONGESTION.
AD-703 621

* * *
AROD-T-1161
A SIMULATION OF MANPOWER ALLOCATION POLICIES AT A MAINTENANCE DEPOT.
AD-713 989

* * *
AROD-T-1162-RT
DERIVATION AND SIMULATION OF AN ORDERING RULE FOR THE MULTI-ECHELON SUPPLY CHAIN.
AD-719 002

•CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE INST

* * *
WMSI WORKING PAPER-197
CONDITIONAL MONTE CARLO: A SIMULATION TECHNIQUE FOR STOCHASTIC NETWORK ANALYSIS.
AD-703 693

•CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP

* * *
RR-193
RESEARCH AND DEVELOPMENT COORDINATION AS A PROBABILITY PROCESS.
AD-711 839

* * *
RR-196
STOCHASTIC GROWTH MODELS.
AD-714 497

* * *
RR-206
A GENERALIZED NETWORK MODEL FOR TRAINING AND RECRUITING DECISIONS IN MANPOWER PLANNING.

AD-711 836

•CENTER FOR NAVAL ANALYSES ARLINGTON VA

• • •

CNAPROFESSIONAL PAPER-18
INVENTORY AND THE THEORY OF THE FIRM.
AD-702 454

• • •

CNA-PROFESSIONAL PAPER-19
A DECOMPOSED NETWORK COMPUTATION FOR END-PRODUCT REPAIR COST CURVES.
AD-702 455

• • •

CNA-PROFESSIONAL PAPER-21
RESOURCE ALLOCATION IN A SEQUENTIAL FLOW PROCESS.
AD-702 457

• • •

CNA-PROFESSIONAL PAPER-45
FIXED SHORTAGE COSTS AND THE CLASSICAL INVENTORY MODEL.
AD-713 097

• • •

CNA-PROFESSIONAL PAPER-47
RESOURCE ALLOCATION IN A SEQUENTIAL FLOW PROCESS WITH AN APPLICATION TO THE NAVAL RESUPPLY SYSTEM.
AD-713 028

•CHICAGO UNIV ILL DEPT OF ECONOMICS

• • •

ESTIMATION OF FIRST ROUND AND SELECTED SUBSEQUENT INCOME EFFECTS OF WATER RESOURCES INVESTMENT.
(IWR-70-1)
AD-708 925

•CHICAGO UNIV ILL CENTER FOR URBAN STUDIES

• • •

COMMUNITY GOALS - MANAGEMENT OPPORTUNITIES: AN APPROACH TO FLOOD PLAIN MANAGEMENT.
(IWR-70-2)
AD-707 461

•DALLAS WATER UTILITIES DEPT TEX

• • •

METROPOLITAN WATER SYSTEM OPERATION SUBSEQUENT TO NUCLEAR ATTACK OR NATURAL DISASTER.
AD-711 956

•DECISION STUDIES GROUP PALO ALTO CALIF

• • •

R-139-1
BUDGET ALLOCATION PROCEDURES FOR NAVAL AIRCRAFT GROUND SUPPORT EQUIPMENT.
AD-714 927

•DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA

• • •

DDC-TAS-70-43-1
MANAGEMENT INFORMATION SYSTEMS. VOLUME I.
AD-709 960

• • •

DDC-TAS-70-49-1
CIVIL DEFENSE SYSTEMS: SOCIAL IMPACT AND MANAGEMENT PLANNING. VOLUME I.
AD-709 900

•DEFENSE SUPPLY AGENCY ALEXANDRIA VA

• • •

ITEM STOCKAGE FOR A LOOSE ISSUE WAREHOUSE.
AD-709 189

•DEPARTMENT OF TRANSPORTATION WASHINGTON D C

• • •

DEPARTMENT OF TRANSPORTATION NATIONAL PLAN FOR NAVIGATION.
AD-704 969

•ECONOMIC SCIENCES CORP INC WASHINGTON D C

• • •

ESI-0270
THE DEVELOPMENT AND APPLICATION OF A PROCEDURE FOR ESTIMATING THE ECONOMIC LIFE OF WEAPONS SYSTEMS.
AD-711 115

*ELECTRONIC SYSTEMS DIV L G HANSCOM FIELD MASS

* * *

ESD-TR-70-262
FUTURE INSTRUMENT LANDING SYSTEM CHANNEL REQUIREMENTS.
AD-719 111

*FEDERAL AVIATION ADMINISTRATION WASHINGTON D C SYSTEMS RESEARCH AND DEVELOPMENT SERVICE

* * *

FAA-RD-70-7
ANALYTICAL STUDY OF AIR TRAFFIC CAPACITY IN THE NEW YORK METROPOLITAN AREA AND NEW YORK AIR TRAFFIC CAPACITY STUDY (REAL TIME SIMULATION).
AD-702 779

*FLORIDA STATE UNIV TALLAHASSEE COMPUTER-ASSISTED INSTRUCTION CENTER

* * *

CAI-TM-19
THE ROLE OF COMPUTERS IN EDUCATION DURING THE 70'S.
AD-707 069

* * *

CAI-TR-8
EMPIRICAL DEVELOPMENT OF A COMPUTER MANAGED INSTRUCTION SYSTEM FOR THE FLORIDA STATE UNIVERSITY MODEL FOR THE PREPARATION OF ELEMENTARY SCHOOL TEACHERS.
AD-704 912

*FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

* * *

THESIS-UF-TR-44
A SIMULATION OF MANPOWER ALLOCATION POLICIES AT A MAINTENANCE DEPOT.
(AROD-T-1161)
AD-713 389

* * *

THESIS-UF-TR-45
DERIVATION AND SIMULATION OF AN ORDERING RULE FOR THE MULTI-ECHELON SUPPLY CHAIN.
(AROD-T-1162-RT)
AD-719 002

*FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO

* * *

FTD-HT-23-162-70
FAILURE TO INTRODUCE INDUSTRIAL ENGINEERING SCORED.
AD-704 760

*GENERAL AMERICAN TRANSPORTATION CORP NILES ILL GENERAL AMERICAN RESEARCH DIV

* * *

GARD-1480-F
SHELTER OCCUPANCY STUDIES OF VENTILATOR UTILIZATION.
AD-714 208

*GENERAL DYNAMICS/ELECTRONICS SAN DIEGO CALIF

* * *

R-69-046-9
STUDY OF ELECTRONIC HANDLING OF MAIL. COMPLETION REPORT FOR WORK TASK 9. VALUE/SANCTITY.
AD-718 124

*GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS

* * *

SERIAL-T-232-REV
A METHODOLOGY FOR ESTIMATING EXPECTED USAGE OF REPAIR PARTS, WITH NO USAGE HISTORY.
AD-705 911

* * *

SERIAL-T-239
RESOURCE USE AND OPERATIONAL ENVIRONMENT.
AD-719 241

* * *

SERIAL-T-241
SIMULATION OF MACRO MULTI-ECHELON INVENTORY POLICIES.
AD-712 808

*HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

* * *

HUMRRO PROFESSIONAL PAPER-15-70
REMARKS ON SYSTEMS ANALYSIS FOR SOCIAL PROBLEMS.
AD-709 800

* * *

HUMRRO PROFESSIONAL PAPER-19-70
A MANPOWER DELIVERY SYSTEM: IMPLICATIONS FOR CURRICULUM DEVELOPMENT.
AD-717 499

* * *

HUMRRO-TR-70-9
AN EXPERIMENTAL PROGRAM OF INSTRUCTION ON THE MANAGEMENT OF TRAINING.
AD-711 998

*IIT RESEARCH INST ANNAPOLIS MD

* * *

FUTURE INSTRUMENT LANDING SYSTEM CHANNEL REQUIREMENTS.
(ESD-TR-70-362)
AD-714 111

*INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA

* * *

IDA/HQ-69-10640
A SURVEY AND ASSESSMENT OF AIR TRAVEL FORECASTING.
AD-709 121

* * *

IDA/HQ-70-11363
RESERVED LANES FOR BUSES: THE SHIRLEY HIGHWAY EXPERIMENT.
AD-708 019

* * *

IDA/HQ-70-11922
A BIBLIOGRAPHY ON AIR TRAVEL AND ASSOCIATED GROUND TRANSPORTATION.
AD-708 023

* * *

IDA/HQ-70-11949
CASE STUDIES OF ONR-SUPPORTED RESEARCH.
AD-714 860

* * *

IDA/HQ-70-11983
CENTER CITY TRANSPORTATION: SUMMARY OF THE NATIONAL URBAN COALITION SEMINAR, MINNEAPOLIS, MINNESOTA, MAY 4-6, 1970.
AD-708 021

* * *

N-726(R)
CENTER CITY TRANSPORTATION: SUMMARY OF THE NATIONAL URBAN COALITION SEMINAR, MINNEAPOLIS, MINNESOTA, MAY 4-6, 1970.
(IDA/HQ-70-11983)
AD-708 021

* * *

N-731(R)
A BIBLIOGRAPHY ON AIR TRAVEL AND ASSOCIATED GROUND TRANSPORTATION.
(IDA/HQ-70-11922)
AD-708 023

* * *

RP-P-340
A SURVEY AND ASSESSMENT OF AIR TRAVEL FORECASTING.
(IDA/HQ-69-10640)
AD-709 121

* * *

RP-P-613
RESERVED LANES FOR BUSES: THE SHIRLEY HIGHWAY EXPERIMENT.
(IDA/HQ-70-11363)
AD-708 019

*INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

* * *

RP-P-649
CASE STUDIES OF ONR-SUPPORTED RESEARCH.
(IDA/HQ-70-11949)
AD-714 860

*INSTITUTE FOR WATER RESOURCES (ARMY) ALEXANDRIA VA

* * *

IWR-70-1
ESTIMATION OF FIRST ROUND AND SELECTED SUBSEQUENT INCOME EFFECTS

OF WATER RESOURCES INVESTMENT.
AD-708 925

* * *

IWR-70-2
COMMUNITY GOALS - MANAGEMENT OPPORTUNITIES: AN APPROACH TO FLOOD PLAIN MANAGEMENT.
AD-707 461

* * *

IWR-70-3
PRELIMINARY REVIEW AND ANALYSIS OF FLOOD CONTROL PROJECT EVALUATION PROCEDURES.
AD-713 482

*INTASA MENLO PARK CALIF

* * *

IRR-70-01
PRELIMINARY REVIEW AND ANALYSIS OF FLOOD CONTROL PROJECT EVALUATION PROCEDURES.
(IWR-70-3)
AD-713 482

*LITTON SYSTEMS INC MONTEREY CALIF MELLONICS SYSTEMS DEVELOPMENT DIV

* * *

APPLICATION AND DEMONSTRATION OF NAS SAUFLEY MANPOWER ALLOCATION AND PRODUCTIVITY MEASUREMENT MODEL.
AD-701 207

*LOGISTICS MANAGEMENT INST WASHINGTON D C

* * *

LMI-69-12
A PILOT SYSTEM TO IMPROVE PREDICTION PARAMETERS AT A NAVAL AIR REWORK FACILITY AND TO COMPARE PLANS WITH PERFORMANCE.
AD-707 729

* * *

LMI-69-21
DOD-CONTRACTOR RELATIONSHIP--PRELIMINARY REVIEW.
AD-707 731

* * *

LMI-70-10
EXPLORATORY STUDY OF SUBCONTRACTOR PROPOSAL COSTS.
AD-707 732

*MASSACHUSETTS INST OF TECH CAMBRIDGE

* * *

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