

Data Processing Techniques

Bibliography of Data Processing Techniques

This bibliography provides a selection of IBM publications which, either wholly or in part, describe data processing techniques — generally useful methods and applications, studies in analysis and design, management of a data processing department, and the like. *The listing of a publication in this bibliography does not, however, preclude its appearance in one or more bibliographies for specific systems.*

Titles, order numbers, current status, and an abstract of each item are provided. Titles are listed two ways: by topic, with order number indicated, and in order-number sequence with title given.

IBM

Preface

Systems techniques are those which aid in the investigation, management, or work of designing, implementing, and operating data processing systems. This bibliography directs the user to publications in which the techniques described are applicable to *many types* of IBM data processing systems.

Organization

This bibliography has three parts. Part 1 lists publications by topic.

Part 2 contains abstracts describing each item listed in Part 1. Before ordering copies of publications, check the abstract to be sure that you can use the information.

Part 3 is a second listing, in order-number sequence, of all items listed by subject in Part 1. Part 3 enables you to easily locate and verify the currency of any publication listed, through its edition suffix and any Technical Newsletters (TNLs) issued since the latest edition.

Note: *Order numbers are sequenced by second character.* The *first* character of the order number is the *use key*, which governs the availability of the document. Use key G means that the item is available to customers, through the IBM representative, without charge for quantities that meet normal requirements. Use key S means that the item is for sale through IBM branch offices.

Extra Symbols (Flags) on Order Numbers

Maximum case: **GC19-1000-0#*
or: **SF20-2000-2#+

A double asterisk preceding the order number indicates a change in the associated title or order number (such as a new edition) or a new item.

When more than one edition of a publication is current, the order number suffix is followed by a number sign (#).

A single asterisk following the order number indicates that the item is for IBM World Trade use only.

A plus sign following the order number indicates that the item is for U.S.A. use only.

In the abstract section (Part 2), *N identifies a new abstract and *M identifies a modified abstract.

Updating

To keep publications current, changes and additions are distributed in the form of TNLs. When the changed pages released in a TNL are inserted in the manual to which it applies, the base publication is brought up to date. The next reprint of the base publication incorporates the TNLs, and is assigned the next higher suffix number, but need not be ordered as it is the same as any prior edition listed as also current.

TNL Masthead

The masthead of the TNL cover page includes the order number of the base publication to which the TNL applies. All previously issued TNLs are listed in the masthead so that you may verify receipt of all changes. (Each TNL is separately orderable.)

Bibliography Revision Schedule

Between revisions, TNLs may be issued to update the bibliography. At regular intervals, the bibliography is revised to incorporate and merge all new information with that in the previous bibliography edition.

Eighth Edition (April 1973)

This is a major revision of, and supersedes, GF20-8172-7 and all associated DPT Newsletters. All information formerly in the DPT Newsletter is incorporated in the Bibliography, and the DPT Newsletter is discontinued. The organization is simplified, and a new section (listing of publications in order-number sequence) is added.

A form for readers' comments is provided at the back of this bibliography. If the form has been removed, comments may be addressed to Department 77A, 1133 Westchester Avenue, White Plains, New York 10604. Comments and suggestions become the property of IBM.

CONTENTS	PART 1. TOPICS	3
	PART 2. ABSTRACTS	4
	PART 3. CURRENT EDITIONS BY ORDER NUMBER	6

PART 1. TOPICS

Methods and Applications

GF20-8052	A UNIQUE COMPUTABLE NAME CODE FOR ALPHABETIC ACCOUNT NUMBERING
GF20-8093	CODING METHODS
GF20-8102	DECISION TABLES - A SYSTEMS ANALYSIS AND DOCUMENTATION TECHNIQUE
GC20-8152	FLOWCHARTING TECHNIQUES
GC20-1707	IDENTIFICATION TECHNIQUES
GE20-0348	AN INTRODUCTION TO INFORMATION RETRIEVAL
GC20-8062	INDEX ORGANIZATION FOR INFORMATION RETRIEVAL
GE20-8091	KEYWORD-IN-CONTEXT (KWIC) INDEXING
GE20-8171	AN INTRODUCTION TO LINEAR PROGRAMMING
GY20-0026	IMPLEMENTATION MANUAL, MANAGEMENT INFORMATION SYSTEM FOR PROCESS PLANTS
GY20-0136	IBM PUNCHED CARD DATA PROCESSING FOR PROPERTY AND LIABILITY INSURANCE
GC20-8011	RANDOM NUMBER GENERATION AND TESTING
GC20-1645	OUTLINES OF STATISTICAL TECHNIQUES, APPLICATIONS, AND PROGRAMS FOR INDUSTRY, ENGINEERING AND SCIENCE

Operations Management

GF20-0006	MANAGEMENT CONTROL OF ELECTRONIC DATA PROCESSING
GY20-0026	IMPLEMENTATION MANUAL, MANAGEMENT INFORMATION SYSTEM FOR PROCESS PLANTS
GC20-1622	ORGANIZING THE DATA PROCESSING INSTALLATION
GF20-6088	PLANNING FOR AN IBM DATA PROCESSING SYSTEM
*GA36-0005	PROGRAMMING PROJECT MANAGEMENT GUIDE
GC20-1611	MANAGEMENT OF THE PUNCHED CARD DATA PROCESSING DEPARTMENT
GC20-1670	MANAGEMENT PLANNING GUIDE FOR A MANUAL OF DATA PROCESSING STANDARDS

Investigation and Design

GE20-0090	PRINCIPLES OF DATA ACQUISITION SYSTEMS
GF20-8102	DECISION TABLES - A SYSTEMS ANALYSIS AND DOCUMENTATION TECHNIQUE
SF20-8077	AN INTRODUCTION TO ENGINEERING ANALYSIS FOR COMPUTERS: STUDENT TEXT
GC20-8078	FORM AND CARD DESIGN
**GA24-3488	FORM DESIGN REFERENCE GUIDE FOR PRINTERS
GE20-0348	AN INTRODUCTION TO INFORMATION RETRIEVAL
GE20-8171	AN INTRODUCTION TO LINEAR PROGRAMMING
GF20-6088	PLANNING FOR AN IBM DATA PROCESSING SYSTEM
GF20-0074	AN INTRODUCTION TO IBM PUNCHED CARD DATA PROCESSING: STUDENT TEXT
GF20-0007	ANALYSIS OF SOME QUEUING MODELS IN REAL-TIME SYSTEMS
SC20-8075	IBM STUDY ORGANIZATION PLAN: DOCUMENTATION TECHNIQUES
SF20-8135	STUDY ORGANIZATION PLAN: THE APPROACH
SF20-8136	STUDY ORGANIZATION PLAN: THE METHOD, PHASE I
SF20-8137	STUDY ORGANIZATION PLAN: THE METHOD, PHASE II
SF20-8138	STUDY ORGANIZATION PLAN: THE METHOD, PHASE III
SF20-8150	BASIC SYSTEM STUDY GUIDE

Lists and Tables

GC20-8073	NUMERICAL CODES FOR STATES, COUNTIES AND CITIES OF THE UNITED STATES
GC20-1671	APPLICATIONS AND TECHNIQUES OF OPERATIONS RESEARCH...A SELECTED BIBLIOGRAPHY
GC20-1673	A KWIC INDEX IN OPERATIONS RESEARCH
GC20-8071	10,000 DIVISION CODE FOR PROPER NAMES

Part 2. Abstracts

GA24-3488

FORM DESIGN REFERENCE GUIDE FOR PRINTERS
This publication contains information to be considered by personnel designing, ordering, or using forms for the IBM 1132, 1403, 1404, 1443, 2203, 2213, 2222, 3210, 3211, 3215, 5203, 5213 printers.
Companion publications useful in designing forms are:
OCR Input Preparation Guide, Order No. GC20-1686
Print Chart (Six Lines per Inch), GX20-1816
Print Chart (Eight Lines per Inch), GX20-1818

GA36-0005

PROGRAMMING PROJECT MANAGEMENT GUIDE
The development of a program, or more frequently, a system of programs, is a task which has all too frequently been classified as an occult art; consequently, the approach has been similar to the preparation of a witch's potion. This document defines the life cycle of a programming project in as close an approach to "cookbook" fashion as has yet been available. It is intended to serve as a guideline for management in planning and implementing a programming project.

*N

GC20-1611

MANAGEMENT OF THE PUNCHED-CARD DATA PROCESSING DEPARTMENT
This manual is a guide to the management of an IBM punched card data processing department. The responsibilities of the IBM department manager are described for four major areas of management: procedure development, manuals of procedure, workloads, and evaluation and improvement.

GC20-1622

ORGANIZING THE DATA PROCESSING INSTALLATION
This text is designed to help the organizational planner develop the data processing structure best suited to his own needs and environment. It is directed primarily to data processing managers, the executives to whom they report, and others responsible for organizational and personnel planning. The major topics discussed are: concepts applicable to organizing the data processing activity, possible locations of the data processing activity within the larger organization, data processing functions, grouping of functions into an organizational structure, and grouping of functions into job families and job positions. The Appendix provides some typical job descriptions.

GC20-1645

OUTLINES OF STATISTICAL TECHNIQUES, APPLICATIONS, AND PROGRAMS FOR INDUSTRY, ENGINEERING AND SCIENCE
This manual outlines nine statistical techniques, giving simple definitions and examples, a summary of input and output, and references to numerous applications and computer programs. The techniques covered are: correlation, factor analysis, cluster analysis, regression, discriminant analysis, experimental analysis, evolutionary operation, Bayes formula, and time-series analysis.

GC20-1670

MANAGEMENT PLANNING GUIDE FOR A MANUAL OF DATA PROCESSING STANDARDS
The purpose of this guide is to assist data processing management in the selection and documentation of standards. The preface discusses the necessity of standards and the sources from which they are obtained. Suggestions are given as to standards manual format and methods of enforcing standards. The remainder of the guide depicts a specimen set of standards covering the areas of standards policy, management procedures, system environment, systems analysis, programming, and installation operating procedures and rules. Although this guide assumes the use of an IBM System/360 Disk Operating System in a multiprogramming environment, other types of installations may also find it useful in developing their standards.

GC20-1671

APPLICATIONS AND TECHNIQUES OF OPERATIONS RESEARCH
...A SELECTED BIBLIOGRAPHY
This is a special bibliography on the tools of Operations Research, Management Science, Industrial Engineering, and Systems Engineering. Topics from 200 periodicals and trade journals for the years 1961 to 1966 are sampled. This manual was prepared using the IBM computer and an automatic text processor. The bibliography runs alphabetically through three kinds of entries: industries, functions, and techniques.

GC20-1673

A KWIC INDEX IN OPERATIONS RESEARCH
This manual enables a user to find articles on selected topics in Operations Research, Management Science, Industrial Engineering, and Systems Engineering.

The manual has three sections. Section A gives references and full titles for 345 special topics including:

techniques (linear programs, queue analysis, ...) industries (finance, process, utilities, ...) functions (control, forecasting, routing, ...)

Section B is a KWIC index of keywords in the titles of over 3,200 articles. It includes the 345 topics in Section A and a great many more. The reader can look up first author names in the index, also.

Section C is a listing of titles according to journal and within journal, by year and by page.

Fifteen publications in Operations Research and related subjects are represented.

GC20-1707

IDENTIFICATION TECHNIQUES

This manual explains and compares a survey of several types of coding techniques for individuals and non-individuals. An approach to improving coding methods involving a statistical approach is outlined. The publication is basically a state-of-the-art description of the identification techniques.

GC20-8011

RANDOM NUMBER GENERATION AND TESTING

Random sampling, simulation studies, and Monte Carlo methods have been in use for many years. Papers describing various aspects of these topics have appeared in technical journals and textbooks available to a relatively small percentage of computer users. Meanwhile, applications requiring random numbers are becoming more important and more common in business and industry as well as purely scientific areas. Therefore, this manual has been prepared which gives the mathematical development of the power residue method, outlines computer techniques for implementing it and also offers brief comments on other methods. An appendix provides programming illustrations for binary and decimal computers.

GC20-8062

INDEX ORGANIZATION FOR INFORMATION RETRIEVAL

Methods of indexing vary with the nature of the material to be indexed and the ways in which this material will be used. This book presents, in simplified form, the basic principles behind organizing indexes of various types. It is written to help systems personnel understand the problems they will encounter in organizing information for eventual retrieval.

Stressing that an indexing system should always be developed in the light of the particular retrieval problem, and that the specific equipment to be used is a secondary consideration, the book covers name indexing, special indexing (including auto-encoding and the KWIC index), and indicative and informative indexing.

GC20-8071

10,000 DIVISION CODE FOR PROPER NAMES

This manual contains a four-digit code based on the name frequencies found by the University of Oregon.

GC20-8073

NUMERICAL CODES FOR STATES, COUNTIES AND CITIES OF THE UNITED STATES

This book is based on the 1960 census. Every urban place with a population of 2,500 or more is listed in alphabetic sequence by state and is assigned a four-digit code. In order not to confuse users of the older three-digit code, both the old and new code numbers are shown.

SC20-8075

IBM STUDY ORGANIZATION PLAN DOCUMENTATION TECHNIQUES

This manual describes a related total approach to documenting the study, analysis and design of business systems. Examples are given of the use of a series of forms in recording survey data, analyzing system requirements, and describing the new system that emerges. A brief discussion of the concepts and problems of system design is also included. The series of forms used consists of the File Sheet (MO8-4603), Message Sheet (MO8-4604), Operation Sheet (MO8-4605), Input Output Sheet (MO8-4606), Resource Usage Sheet (MO8-4607), Activity Sheet (MO8-4608), Required Operations Sheet (MO8-4609) and Resource Sheet (MO8-4610).

- GC20-8078
FORM AND CARD DESIGN
This manual is divided in two sections--the first devoted to form design and the second to card design. Its use presupposes a knowledge of IBM data processing equipment. It can be used as a guide for individual study or a text for class study.
- GC20-8152
FLOWCHARTING TECHNIQUES
Adherence to standard techniques for the preparation of flowcharts of data processing systems and procedures greatly increases the effectiveness of communication between the programmer-analyst and the many groups with whom he deals. The manual describes in detail the preparation of system and program flowcharts. The symbols used are those provided by the IBM Flowcharting Template (GX20-8020). A flowchart worksheet (GX20-8021) is a means of standardizing documentation. It provides space for drawing program flowcharts and contains an area for identification of the job, including application, procedure, date, and pagination.
- GE20-0090
PRINCIPLES OF DATA ACQUISITION SYSTEMS
For IBM customers who require a basic understanding of the functions of data acquisition systems, this manual provides an introductory description of their operation and use in a system environment. This manual acquaints the reader with many of the various items of hardware commonly encountered in data acquisition systems, the means of connecting them in a system configuration and the central processing unit, features and programming capabilities necessary for efficient operation.
- GE20-0348
AN INTRODUCTION TO INFORMATION RETRIEVAL
This manual uses the language of the nonspecialist to present ways in which digital computers can be used in information storage and retrieval systems. Indexing methods, file organization, and search strategies are discussed, and a brief bibliography is included. The manual is intended as a first reader for those interested in the broad aspects of data banks and mechanized libraries.
- GE20-8091
KEYWORD-IN-CONTEXT (KWIC) INDEXING
KWIC indexes constitute a new approach to the problem of how to furnish information promptly about new literature. This manual presents the principles and advantages of KWIC indexing and gives essential details about the parts of an overall KWIC index -- the KWIC index proper, reference code, bibliography and author index. An extensive list of recommendations is included for preparing master machinable records. This involves reserving particular card columns for specific items and includes suggested punctuation substitutions and other special indications. The manual also gives instructions for machine printout, mounting copy for reproduction, and binding.
- GE20-8171
AN INTRODUCTION TO LINEAR PROGRAMMING
This manual is a primer on what can be accomplished on a computer with linear programming systems. The presentation covers the entire scope of linear programming application: problem formulation, computer operations, interpretation of results, and additional information that can be obtained through the use of complete linear programming system for a computer. The manual assumes no mathematical background beyond high school algebra.
The first chapter deals with concepts and examples of linear programming. The second chapter deals with deriving additional information about a solution. The third chapter completely describes a larger example of linear programming in oil refinery scheduling. The fourth chapter is a description of the simplex method of linear programming. A detailed glossary of linear programming terms is included.
- GF20-0006
MANAGEMENT CONTROL OF ELECTRONIC DATA PROCESSING
Establishes the need and responsibility for adequate data processing controls in a customer organization. Discusses types of control needed in input, programming, and analysis of output. The manual was written for IBM by Price Waterhouse and Company.
- GF20-0007
ANALYSIS OF SOME QUEUING MODELS IN REAL-TIME SYSTEMS
This manual presents basic theory which describes relationships among the principal elements in a queuing situation. Several queuing models are discussed, and the theory is applied to 32 short examples of problems encountered in real-time systems; numerical solutions are given for these problems. The manual concerns single server and multi-server queues, machine interference, networks of queues, and combinations of random variables encountered in queuing analysis.
- GF20-0074
AN INTRODUCTION TO IBM PUNCHED CARD DATA PROCESSING - STUDENT TEXT
The purpose of this publication is to introduce IBM punched card accounting to the reader. The material is comprised of historical information, fundamentals and principles, basic machine descriptions, and a few related subjects. A lack of knowledge on the part of the reader is assumed, and data processing terms are explained in order to make the material self-explanatory.
The contents of the publication include an Introduction, Fundamentals of IBM Accounting, the IBM Card, Coding Data, Punching and Verifying Data, Principles of IBM Machine Processing, Sorting Data, The Accounting Machine, The Control Panel, Accounting Controls, Other Punched Card Machines, The Use of Prepunched Data, and a Glossary.
Twenty-five exhibits illustrate the text and include pictures of machines, card forms, report forms, schematics of operating features and drawings to explain various machine functions.
- GF20-6088
PLANNING FOR AN IBM DATA PROCESSING SYSTEM
This publication is an excellent guide for answers to many preinstallation planning problems. It is oriented to assist in the installation of intermediate and larger data processing systems, with emphasis on commercial installations. The subjects covered in separate sections of this manual include the data processing organization, selection and education of personnel, planning and progress control, systems design, program preparation, documentation, standardization, program testing, conversion, physical site preparation and operating the installation. There is also a discussion on the considerations of a scientific installation.
- GF20-8052
A UNIQUE COMPUTABLE NAME CODE FOR ALPHABETIC ACCOUNT NUMBERING
A completely new approach to assigning code numbers is described. A ten-position code based on the last name, first name, and middle initial is developed. Five additional positions are used in this particular system to describe date of birth, sex, eye color, and height. These 15 positions result in a unique number. In actual practice at motor vehicle bureaus, this coding system has produced less than .025% duplication.
Tables to permit the assignment of codes are included, which will make the system advantageous for all customers who desire to use an alphameric numbering system.
The technique described in this manual has been implemented on the IBM 650 and 1401 systems and is applicable to System/360. For further information contact your state and local government industry representative.
- SF20-8077
AN INTRODUCTION TO ENGINEERING ANALYSIS FOR COMPUTERS - STUDENT TEXT
This manual, after giving some historical background to the subject of computers and describing the basic elements of the digital computer, presents a variety of subjects of interest to the engineer. This includes the FORTRAN language, block diagramming, floating point arithmetic, errors, recursion formulas, algorithms, principles of iteration, mathematical models, matrix inversion, eigenvalue problems, partial differential equations, empirical relationships, probability, job shop simulation, inventory control, and linear programming. Most subjects are developed through examples written in the FORTRAN language.
- GF20-8093
CODING METHODS
Specific methods of alphabetic and numerical coding are discussed--also the way in which they may be developed and applied. The manual lists and describes the characteristics that should be included in the construction of adequate codes.
- GF20-8102
DECISION TABLES - A SYSTEMS ANALYSIS AND DOCUMENTATION TECHNIQUE
The basic concepts of decision tables and a minimum set of conventions for their use in systems analysis, procedure design, and documentation are described. The purpose of such tables is to provide information in a concise format that is easy to read and understand. The tabular approach is used to express complex decision logic in a manner that encourages the analyst to reduce a problem to its simplest

form by arranging and presenting logical alternatives under various conditions. The resultant tables present a system's logic in a concise manner that is easy to visualize and grasp. While the concepts in the test are presented on a level for comprehension by students in basic computer courses, the techniques are applicable at all levels of sophistication by everyone in a data processing environment.

SF20-8135

STUDY ORGANIZATION PLAN: THE APPROACH
This introduction to the Study Organization Plan describes a total plan of action or a set of guidelines for many types of system studies.

SF20-8136

STUDY ORGANIZATION PLAN: THE METHOD, PHASE I
This manual is a working guide for conducting business systems studies through the initial phase of the study organization plan--understanding the present business.

SF20-8137

STUDY ORGANIZATION PLAN: THE METHOD, PHASE II
This manual is a working guide for conducting business systems studies, starting after the present business is understood and continuing through the establishment of system requirements specifications.

SF20-8138

STUDY ORGANIZATION PLAN: THE METHOD, PHASE III
This manual is a working guide for conducting business systems studies through the third phase of the study organization--creation of the new system.

SF20-8150

BASIC SYSTEM STUDY GUIDE
This manual presents an organized approach to conducting a system study in a smaller organization; one that cannot assign more than two or three personnel to the study. The reader need not have previously participated in a study. He should however, understand the basic concepts of punched card and computer equipment. The material presented is based upon actual systems studies that used the IBM Study Organization Plan approach.

GY20-0026

IMPLEMENTATION MANUAL MANAGEMENT INFORMATION SYSTEM FOR PROCESS PLANTS
The purpose of this manual is to serve as reference service for the implementation of a management information system for a process plant. The material used here was obtained during the implementation of a system in a refinery. However, the manual would apply as well to a chemical or petrochemical process plant. Planning and initial considerations for a system are discussed along with detailed card layouts, table formats, procedures, programs, and management reports. Installation and use of remote terminals are also covered.

GY20-0136

IBM PUNCHED CARD DATA PROCESSING FOR PROPERTY AND LIABILITY INSURANCE
The introductory sections of this guide are intended to be a general outline of the property and liability industry. Included are discussions about types of insurance, types of companies or organizations, methods of operation, accounting functions, reinsurance, and earned and unearned premiums.
Property and liability insurance companies have successfully used IBM punched card equipment for many years. Based on this experience, the remaining sections of this guide contain punched card procedures, detailed flowcharts, and card design for the accounting functions performed by these companies.

Part 3. Current Editions by Order Number

**GA24-3488-5#		FORM DESIGN REFERENCE GUIDE FOR PRINTERS
GA24-3488-4#		
**GA36-0005-0		PROGRAMMING PROJECT MANAGEMENT GUIDE
GC20-1611-0		MANAGEMENT OF THE PUNCHED CARD DATA PROCESSING DEPARTMENT
GC20-1622-0		ORGANIZING THE DATA PROCESSING INSTALLATION
GC20-1645-1		OUTLINES OF STATISTICAL TECHNIQUES, APPLICATIONS, AND PROGRAMS FOR INDUSTRY, ENGINEERING AND SCIENCE
GC20-1670-2		MANAGEMENT PLANNING GUIDE FOR A MANUAL OF DATA PROCESSING STANDARDS
GC20-1671-0		APPLICATIONS AND TECHNIQUES OF OPERATIONS RESEARCH . . . A SELECTED BIBLIOGRAPHY
GC20-1673-0		A KWIC INDEX IN OPERATIONS RESEARCH
GC20-1707-0		IDENTIFICATION TECHNIQUES
GC20-8011-0		RANDOM NUMBER GENERATION AND TESTING
GC20-8062-1#		INDEX ORGANIZATION FOR INFORMATION RETRIEVAL
GC20-8062-0#		
GC20-8071-0		10,000 DIVISION CODE FOR PROPER NAMES
GC20-8073-0	GN20-1022	NUMERICAL CODES FOR STATES, COUNTIES AND CITIES OF THE UNITED STATES
SC20-8075-0		IBM STUDY ORGANIZATION PLAN: DOCUMENTATION TECHNIQUES
GC20-8078-0		FORM AND CARD DESIGN
GC20-8152-1		FLOWCHARTING TECHNIQUES
GE20-0090-0		PRINCIPLES OF DATA ACQUISITION SYSTEMS
GE20-0348-0		AN INTRODUCTION TO INFORMATION RETRIEVAL
GE20-8091-0		KEYWORD-IN-CONTEXT (KWIC) INDEXING
GE20-8171-0		AN INTRODUCTION TO LINEAR PROGRAMMING
GF20-0006-0		MANAGEMENT CONTROL OF ELECTRONIC DATA PROCESSING
GF20-0007-1		ANALYSIS OF SOME QUEUING MODELS IN REAL-TIME SYSTEMS
GF20-0074-0		AN INTRODUCTION TO IBM PUNCHED CARD DATA PROCESSING: STUDENT TEXT
GF20-6088-3#		PLANNING FOR AN IBM DATA PROCESSING SYSTEM
GF20-6088-2#		
GF20-8052-1		A UNIQUE COMPUTABLE NAME CODE FOR ALPHABETIC ACCOUNT NUMBERING
SF20-8077-3		AN INTRODUCTION TO ENGINEERING ANALYSIS FOR COMPUTERS: STUDENT TEXT
GF20-8093-0		CODING METHODS
GF20-8102-0		DECISION TABLES - A SYSTEMS ANALYSIS AND DOCUMENTATION TECHNIQUE
SF20-8135-0		STUDY ORGANIZATION PLAN: THE APPROACH
SF20-8136-0		STUDY ORGANIZATION PLAN: THE METHOD, PHASE I
SF20-8137-0		STUDY ORGANIZATION PLAN: THE METHOD, PHASE II
SF20-8138-0		STUDY ORGANIZATION PLAN: THE METHOD, PHASE III
SF20-8150-0		BASIC SYSTEM STUDY GUIDE
GY20-0026-0		IMPLEMENTATION MANUAL, MANAGEMENT INFORMATION SYSTEM FOR PROCESS PLANTS
GY20-0136-0		IBM PUNCHED CARD DATA PROCESSING FOR PROPERTY AND LIABILITY INSURANCE



International Business Machines Corporation
Data Processing Division
1153 Westchester Avenue, White Plains, New York 10604
(U.S.A. only)

IBM World Trade Corporation
821 United Nations Plaza, New York, New York 10017
(International)

Bibliography of
Data Processing Techniques
Order No. GF20-8172-8

READER'S
COMMENT
FORM

Your views about this publication may help improve its usefulness; this form will be sent to the persons responsible for appropriate action. Using this form to request system assistance or additional publications will delay response, however. For more direct handling of such request, please contact your IBM representative or the IBM Branch Office serving your locality.

Possible topics for comment are:

Clarity Accuracy Completeness Organization Coding Retrieval Legibility

Cut or Fold Along Line

What is your occupation? _____

Number of latest Newsletter associated with this Bibliography: _____

Please indicate in the space below if you wish a reply.

Thank you for your cooperation. No postage stamp necessary if mailed in the U.S.A. (Elsewhere, an IBM office or representative will be happy to forward your comments.)

Your comments, please . . .

This publication is part of a library that serves as a reference source for systems analysts, programmers, and operators of IBM systems. Your comments on the other side of this form will be carefully reviewed by the persons responsible for compiling and publishing this material. All comments and suggestions become the property of IBM.

Cut or Fold Along Line

Fold

Fold

First Class
Permit 40
Armonk
New York

Business Reply Mail

No postage stamp necessary if mailed in the U.S.A.



Postage will be paid by:

International Business Machines Corporation
Department 77A
1133 Westchester Avenue
White Plains, New York 10604

Fold

Fold

DPT Bibliography (File No. GENL-00) Printed in U.S.A. GF20-8172-8



International Business Machines Corporation
Data Processing Division
1133 Westchester Avenue, White Plains, New York 10604
(U.S.A. only)

IBM World Trade Corporation
821 United Nations Plaza, New York, New York 10017
(International)