

85[Z].—Food & Agriculture Organization of the United Nations, *Handbook on Data Processing Methods*, Columbia University Press, New York, 1959, vi + 111 p., 27 cm. Price \$1.00 (Part 1, Provisional Edition) Paperback.

This handbook is a well-written elementary discussion of the methods of processing statistical data from surveys or censuses. It reviews the various methods of data processing, with emphasis on hand and punch card methods. Only one page is devoted to stored program computers. A bibliography is included with the discussion of each topic. The general principles concerned with planning, organizing, administering, and operating data-processing services are adequately covered. Detailed instructions are given for the proper handling and preservation of records and for sorting records, using manual or punch card methods. The handbook is intended for statisticians or supervisors of data processing activities, and hence does not cover the special operating features and details of available machines. Although prepared primarily for the use of statisticians in countries unfamiliar with present data-processing tools and procedures, it could serve as a useful introduction to the subject for others.

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86[Z].—FRITZ RUDOLF GÜNTSCH, *Einführung in die Programmierung Digitaler Rechenautomaten*, Walter de Gruyter & Co., Berlin, 1960, 144 p., 24 cm. Price DM 24.

This introduction to the programming of digital computers assumes very little previous knowledge of computational procedures. The various steps in the preparation of a computer program are explained with one particular computer, the Z22, in mind. A large number of specific problems are worked out in considerable detail by giving the algorithm, the flow chart, and the detailed coding. Much attention is paid to the discussion of loops, and subroutines are treated with considerable detail. Since the machine code of the Z22 contains only very few instructions—not even a multiplication instruction—nearly all practical coding has to be done in an external code. Therefore, all the illustrative coding in the book up to the second-to-the-last chapter is done in an external code.

The book is devoted exclusively to introducing the reader to programming. It, therefore, does not contain any chapters on numerical analysis or the details of machine logic.

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87[Z].—ALLEN KENT, Editor, *Information Retrieval and Machine Translation*, Part 1, Interscience Publishers, Inc., New York, 1960, xv + 686p., 23 cm. Price \$23.00.

This book contains twenty-one of the papers presented at the International Conference for Standards on a Common Language for Machine Searching and Translation, sponsored by Western Reserve University and the Rand Development Corporation, and held in Cleveland, Ohio, September 6–12, 1959. It is the first part of Volume III (in two parts) of the series entitled *Advances in Documenta-*