

warned that, while a Venn diagram illustration of Boolean inequalities is always available, equality in a particular Venn diagram does not necessarily imply general equality.

In summary, the text covers matters of algebra, arithmetic, and logic that students should know before taking advanced courses in logical programming or component design. It may be recommended as a text or for collateral reading if the instructor will warn the student of possible pitfalls and inaccuracies.

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27[Z].—DEPT. OF THE ARMY, *Catalog of Commercially Available Automatic Data Processing Systems*, Department of the Army Pamphlet No. 1-250-4, 1958, 107 p., 26 cm.

This pamphlet is an excellent compilation and description of automatic data processing systems which are commercially available as of July, 1959. It contains the descriptions of twenty-five digital data processing systems ranging in size from the Bendix G15D and the Royal McBee LGP30 to the UNIVAC 1105 and the DATAmatic 1000. A photograph is included with each computer description.

This compilation is subdivided into categories entitled, respectively, General Description, System Components, Programming, Personnel Requirements, and Site Preparation.

The systems component category describes a typical computer configuration consisting of central processor, arithmetic unit, input-output control, high speed memory, magnetic tape units, paper tape units, card readers and punches, and high speed printers. This category lists some pertinent characteristics such as word length, numeric characters per word, timing, pulse repetition rate, size of memory, checking, and error correcting features. A rather complete list of specifications and characteristics of input and output media is included. The instruction word structure is also presented.

The personnel requirements category recommends a programming and operating complement of personnel but excludes maintenance personnel. Manufacturer's training of operators and programmers is discussed, with an option of training at the manufacturer's premises or at the installation site.

The over-all floor space, floor loading, and air conditioning requirements are also given in the site preparation category.

However, the major contributions of this pamphlet are the tables of cost, power requirements, and physical characteristics of each unit. These tables also present rental, purchase, and maintenance costs.

This reviewer considers this pamphlet an excellent guide to all computer users who require a ready reference in the field.

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