Digital Computer Structure and Design

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Digital Computer Structure and Design, Second Edition discusses switching theory, counters, sequential circuits, number representation, and arithmetic functions The book also describes computer memories, the processor, data flow system of the processor, the processor control system, and the input-output system. Switching theory, which is purely a mathematical concept, centers on the properties of interconnected networks of "gates." The theory deals with binary functions of 1 and 0 which can change instantaneously from one to the other without intermediate values. The binary number system is used in computer arithmetic and other operations due to its simplicity that can be easily adopted in device parameters. These operations involve only two levels: the "on" or "off" positions, which also offer maximum immunity to noise or circuit interference. The binary system is a very efficient way to represent numbers or to store data. When the computer uses this system, the clock cycle of the processor determines or divides the cycles for each sub-operation into steps. A master timing counter defines each of these steps, and synchronizes them avoid data loss or mix-ups. After the sub-operation has been completed, the monitor will display the result. Programmers, computer engineers, computer instructors, and students of computer science will find the book highly useful.

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