



Digital Principles and Applications

Donald P. Leach, Albert Paul Malvino

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Digital Principles and Applications is appropriate for an introductory course in digital logic for both computer and electronics programs. It also can be used for self-study and as a reference text for those working in the field. Comprehension of the material does not require a background in electronics. A familiarity with Ohm's Law and voltage and current in simple DC-resistive circuits is helpful, but not required. This text, which now includes a two-color interior and performance objectives, emphasizes two of the most popular digital Integrated Circuit (IC) families—Transistor Transistor Logic (TTL) and Complementary Metal Oxide Silicon (CMOS) logic. Many of these individual ICs are discussed in detail, and “pin-outs” for more than 60 digital IC chips are summarized inside the front and rear covers. In addition, standard logic symbols are used along with the new IEEE standard logic. Each chapter begins with a table of contents, listing the subject(s) in each section, and ends with a summary and glossary.

Experiments in Digital Principles provides the practical, hands-on experience so important in digital electronics. The experiments help teach students fundamental concepts while introducing them to practical applications. Also included in the Experiments Manual are self-tests, objectives, and a parts list. Instructor's Guides for the text and the Experiments Manual provide answers and teaching suggestions.

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