



# Digital Principles and Design with CD-ROM

By Donald Givone

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This exciting first edition provides more depth than existing digital design books, using a traditional approach to the subject. *Digital Principles and Design* contains introductory material in digital principles with emphasis on logic design, as well as more advanced material. With the exception of the digital circuits appendix, it assumes no background on the part of the reader. The text can be used by readers in computer science, computer engineering and electrical engineering.

The emphasis in the book is on the thorough presentation of basic principles of logic design and the illustration of these principles. While many introductory texts only provide the mechanics of classical logic design, Givone provides justifications behind these procedures to give students the understanding they need for the advanced topics they will learn about in subsequent courses. Some of the topics that the book thoroughly presents include: the simplification of Boolean expressions with Karnaugh maps, variable-entered Karnaugh maps, and the analysis and design of both clocked synchronous sequential networks and asynchronous sequential networks.

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### **Editorial Review**

#### **About the Author**

Givone received his B.S.E.E. degree from Rensselaer Polytechnic Institute and the M.S. and Ph.D. degrees in Electrical Engineering from Cornell University. In 1963, he joined the faculty at the University of Buffalo, where he is currently a Professor in the Department of Electrical Engineering.

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