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Ron Tocci is a retired Professor Emeritus of Electrical Engineering Technology from Monroe Community College in Rochester, New York, where he served on the faculty and as department chair for many years. He is an accomplished author with very successful titles in electronic devices, microprocessors, and, of course, Digital Systems, which he originally published in 1980.

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Tocci and Widmer use a block diagram approach to basic logic operations, enabling readers to have a firm understanding of logic principles before they study the electrical characteristics of the logic ICs. KEY TOPICS For each new device or circuit, the authors describe the principle of the operation, give thorough examples, and then show its actual application. An excellent reference on modern digital systems.

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For all courses in digital electronics, from introductory through advanced. Like previous editions, this text will be used widely in technology classes ranging from high schools and two-year programs to four-year engineering, engineering technology, and computer science programs. Take a journey in Digital Systems from novice to expert. Written for all courses in digital electronics-from introductory to advanced, from high school to two- and four-year college programs-this Twelfth Edition of Digital Systems thoroughly prepares students for the study of digital systems and computer and microcontroller hardware. The text begins with the basics of digital systems, including the AHDL hardware description language, then gradually progresses to increasingly challenging topics, including the more complex VHDL. The text is comprehensive yet highly readable, clearly introducing the purpose and fundamentals of each topic before delving into more technical descriptions. It is also definition-focused, with new terms listed in each chapter and defined in a glossary. This Twelfth Edition has been thoroughly revised and updated with new material on section-level learning outcomes. Quadrature Shaft Encoders used to obtain absolute shaft positions, troubleshooting prototype circuits using systematic fault isolation techniques, Time Division Multiplexing, expanded discussion of VHDL data objects and more!

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The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.