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Digital Systems (12th Edition)



Synopsis

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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Customer Reviews

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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!

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. Neal Widmer has been teaching digital electronics for over 30 years. He holds a Bachelor's Degree in Electrical Engineering Technology and a Master's Degree in Industrial Engineering, both from Purdue University. Prior to teaching, his professional practice was in clinical engineering departments of two Midwest hospitals. Currently, he is a Full Professor and Associate Department Head in the School of Engineering Technology at Purdue University, teaching concurrent digital systems and advising senior capstone design projects, in addition to his administrative duties. He was co-author of Electronic Troubleshooting from McGraw Hill, most recently published in 2004. In 1992, he was invited to join Ron Tocci in producing the Sixth Edition of this text. Greg Moss is a retired Professor Emeritus of Electrical Engineering Technology from Purdue University, where he taught digital electronics for over thirty years. He was the sole author of the design-oriented lab manual that accompanied Digital Systems for many years, and has co-authored this text since the Tenth Edition.

A very good book covering all the basis of digital systems. It does have a couple minor mistakes, a few over simplifications (for example the JK Flip-Flops won't work if you simulate them from gates following the schematic shown in the book) and a few problems make little sense for someone with experience, but for a didactic purpose more than fits the bill. It gets a bit into circuits, so if you haven't studied anything about transistors you may find those ideas confusing. All considered, a very good beginners book.

This book is a must have if you're taking the Digital 1 & Digital 2 classes. This book will also help with understanding the start of digital mathematics, logic, logic control, gates and more. The book is great in these aspects but an older version seemed easier to understand some of the tricks it tries to describe.

I rented this book for a digital systems class, but a good number of the pages weren't cut. As in, two pages were stuck together at the outermost edge because they had not been cut apart.

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