



# Introduction to Digital Electronics

By Ken Reid, Robert Dueck

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The perfect introduction to digital concepts, applications, and design, Introduction to Digital Electronics uses a logical organization of topics, clear explanations, and current examples to present key information in a way that is easy to grasp. Unique in its approach, this book covers combinational and sequential logic circuits using CPLDs while still covering circuit design at the gate level using TTL/CMOS devices. The book begins by introducing combinational logic, including detailed explanations for implementing circuits in Altera Quartus II software and CPLDs. The material continues to be presented at the gate level, preparing readers to successfully navigate more complicated areas like functional circuits. Using formal problem-solving concepts, combinational design is then covered, which includes a large combinational design that includes the building and simulation of each component, marking a valuable departure from traditional books in the field which do not cover large-scale design at a combinational level. Additional coverage includes sequential circuits with an emphasis on relevant and useful circuits, and microprocessor and memory concepts.

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### Review

Michael Pelletier, Northern Essex Community College " I liked the author's writing style. He seemed to find a fluent middle ground between writing above the reader's head and being too informal without the necessary rigor."

### About the Author

Ken Reid received his B.S. degree in computer and electrical engineering from Purdue University in 1988 and his M.S.E.E. degree in 1994 from Rose-Hulman Institute of Technology. He was also one of the first in the nation to receive his Ph.D. in engineering education from Purdue University in 2009. Prior to beginning his teaching career in 1996, he worked for the U.S. Navy in electronics manufacturing research. In addition to publishing and presenting in the field, Dr. Reid has extensive experience in teaching digital electronics and computer programming, and he is currently Director of Freshman Engineering at Ohio Northern University. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and is active in the American Society of Engineering Education (ASEE).

Robert Dueck received his B.Sc. degree in electrical engineering from the University of Manitoba in Winnipeg, Canada, and worked for several years as a design engineer at Motorola Canada in Toronto. He began teaching in 1986, specializing in digital and microcomputer subjects in the Electronics and Computer Engineering Technology programs at Seneca College in Toronto. His first book, Fundamentals of Digital Electronics, was published in 1994, and he has written several additional textbooks. He now teaches digital electronics and related courses at Red River College in Winnipeg. Mr. Dueck is a member of the Association of Professional Engineers and Geoscientists of Manitoba (APEGM) and the Institute of Electrical and Electronics Engineers (IEEE). He served as chair of the Winnipeg Section of IEEE in 2002 and was branch counselor of the Red River College Student Branch from 1997-2006.

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