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Digital Electronics Maini.2007-09-27 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.

FCS Electronic Control & Digital Electronics L4 Julia Pilbeam.2009

Digital Electronics .2021

Digital Electronics Demystified Myke Predko.2005-01-11 The field of teaching digital electronics has not changed significantly in the past 20 years. Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts. In the 20+ years since these were written, the basic rules have not changed, but they do not provide strong links to modern electronics including CMOS logic, Programmable Logic Devices and microprocessor/microcontroller interfacing. Courses teaching introductory digital electronics will fill in the missing areas of information for students, but neither the instructors nor students have resources to explain modern technology and interfaces. One assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily - in the proposed book, "digital guru" Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than \$10.

Digital Electronics Inderbir Kaur, Geeta Mongia.2016-06-30 This is an attempt at creating a comprehensive compilation of practicals on combinational and sequential logic using ICs and basic gates. An integrated book for popular digital electronics practicals with comprehensive inputs on each practical including theory and sample questions for viva exams. It will improve ease of conducting practicals with all required information available at one place along with detailed procedures for all experiments supported by typical QA to help students prepare for exams and improve their insights.

Modern Digital Electronics Jain R. P..2000

Teaching and Learning in a Digital World Michael E. Auer, David Guralnick, Istvan

Simonics.2017-12-26 This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning (ICL2017), held in Budapest, Hungary on 27-29 September 2017.

The authors are currently witnessing a significant transformation in the development of education. The impact of globalisation on all areas of human life, the exponential acceleration of technological developments and global markets, and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general, but especially in engineering education. To face these current real-world challenges, higher education has to find innovative ways to quickly respond to them. Since its inception in 1998, this conference has been devoted to new approaches in learning with a focus on collaborative learning. Today the ICL conferences offer a forum for exchange concerning relevant trends and research results, and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context.

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DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS Anil K. Maini.2007

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