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Modern Digital Electronics

Shuqin Lou, Chunling Yang



Modern Digital Electronics:

Modern Digital Electronics R. P. Jain, 1997

MODERN DIGITAL ELECTRONICS Rajendra Prasad Jain, 1997

Modern Digital Electronics Jain R. P., 2000

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The revised edition of Modern Digital Electronics focuses on rigorous coverage of design and analysis of complex digital circuits and systems through enhanced elucidation of Sequential Logic Design PLDs Memories and VHDL implementation codes Begins with the fundamental concepts of digital electronics it covers digital design using VHDL supported by plethora of examples

Introduction to Modern Digital Electronics Charles Hawkins, Jaume Segura, 2010 Introduction to Modern Digital Electronics Preliminary Edition is an undergraduate textbook for electrical and computer engineering students that is dedicated solely to digital CMOS electronics It covers the same topics as graduate level textbooks but in an introductory style specifically crafted and course tested for undergraduates Students will not need a prerequisite in analog electronics allowing instructors flexibility in course scheduling While there are several textbooks which include both analog and digital electronics and are used for both courses their digital modules continue to focus attention on outdated bipolar and nMOS logic Introduction to Modern Digital Electronics teaches the fundamentals of modern CMOS technology by focusing on central themes and avoiding overwhelming details Extensive examples self exercises and end of chapter problems assist in teaching the current practices of industry and subjects taught by graduate courses in microelectronics Computer engineering curriculums can remove the analog electronics prerequisite altogether when adopting this book The flow of material begins with a review of previous courses in circuit and logic theory relevant to digital electronics Elementary semiconductor physics then gives students an intuitive feel for how diodes and transistors work followed by chapters on transistors and how they are combined to make simple logic gates The book then shows how transistor logic circuits are designed from the logical Boolean equations that form the initial launch of a design with designing for lower power consumption as a priority subject Introduction to Modern Digital Electronics is also unique in that it presents timing the most difficult of the computer designer's tasks and an issue that is avoided by all other textbooks The remaining chapters describe memory metal thermal and capacitive properties FPGAs layout and then concludes with a chapter on how circuits are made in a chip factory

Fundamental of Digital Electronics And Microprocessors A.K.Chhabra, 2005 In the recent years there has been rapid advances in the field of Digital Electronics and Microprocessor This book is intended to help students to keep pace with these latest developments The Present book is revised version of earlier book Introduction to Digital Computers by the same author Now this book is written in a lucid and simple language which gives clear explanation of basics of Digital Electronics

Computers and microprocessors **A Textbook of Digital Electronics** RS Sedha, 2008 While writing this treatise I have constantly kept in mind the requirements of all the students regarding the latest as well as changing trend of their examinations To make it really useful for the students latest examination questions of various Indian universities as well as

other examinations bodies have been included The Book has been written in easy style with full details and illustrations

Digital Electronics Rishabh Anand, The book covers the complete syllabus of subject as suggested by most of the universities in India Proper balance between mathematical details and qualitative discussion Subject matter in each chapter develops systematically from inceptions Large number of carefully selected worked examples in sufficient details Each chapter of the book is saturated with much needed test supported by neat and self explanatory diagrams to make the subject self speaking to a great extent No other reference is required Ideally suited for self study **Digital Electronic Circuits**

Shuqin Lou, Chunling Yang, 2019-05-20 This book presents three aspects of digital circuits digital principles digital electronics and digital design The modern design methods of using electronic design automation EDA are also introduced including the hardware description language HDL designs with programmable logic devices and large scale integrated circuit LSI The applications of digital devices and integrated circuits are discussed in detail as well **Digital Electronics** John E.

Uffenbeck, 1994 This educational text treats digital signals as active high or active low instead of as ones and zeroes The text includes examples applications and problems many diagrams drawn using the OrCAD schematic capture program and a chapter on programmable logic devices using the CUPL compiler

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