

# Modern Digital Electronics

Modern Digital Electronics MODERN DIGITAL ELECTRONICS Modern Digital Electronics Modern Digital Electronics 4E Introduction to Modern Digital Electronics Experimentation with Digital Electronics Digital Electronics Electronics Radio-electronics Electronic Circuit Analysis and Design Popular Electronics Understanding Advanced Solid State Electronics Digest of Technical Papers Computers and Instrumentation Electronic Projects for Photographers Handbook of Electronic Engineering Electronic Circuit Guidebook: Op amps Technical Book Review Index International Books in Print Cumulative Book Index R. P. Jain Rajendra Prasad Jain Jain R. P. Jain Charles Hawkins John A. Dempsey John E. Uffenbeck Donald A. Neamen Don L. Cannon Alan Carrick Walt Bregach Leslie Ernest Charles Hughes Joseph J. Carr

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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both analog and digital electronics and are used for both courses their digital modules continue to focus attention on outdated bipolar and nmos logic introduction to modern digital electronics teaches the fundamentals of modern cmos technology by focusing on central themes and avoiding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

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 or cad schematic capture program and a chapter on programmable logic devices using the cupl compiler

june issues 1941 44 and nov issue 1945 include a buyers guide section

this junior level electronics text provides a foundation for analyzing and designing analog and digital electronic circuits computer analysis and design are recognized as significant factors in electronics throughout the book the use of computer tools is presented carefully alongside the important hand analysis and calculations the author don neamen has many years experience as an engineering educator and an engineer his experience shines through each chapter of the book rich with realistic examples and practical rules of thumb the book is divided into three parts part 1 covers semiconductor devices and basic circuit applications part 2 covers more advanced topics in analog electronics and part 3 considers digital electronic circuits

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