

DIGITAL INTEGRATED CIRCUITS 2ND EDITION

DIGITAL INTEGRATED CIRCUITS 2ND EDITION DIGITAL INTEGRATED CIRCUITS 2ND EDITION DIGITAL INTEGRATED CIRCUITS 2ND EDITION IS A COMPREHENSIVE AND ACCESSIBLE TEXTBOOK DESIGNED TO INTRODUCE STUDENTS TO THE FUNDAMENTALS OF DIGITAL CIRCUIT DESIGN IT BUILDS UPON THE SUCCESS OF THE FIRST EDITION OFFERING AN UPDATED AND EXPANDED EXPLORATION OF MODERN INTEGRATED CIRCUIT TECHNOLOGIES FABRICATION PROCESSES AND DESIGN PRINCIPLES DIGITAL CIRCUITS INTEGRATED CIRCUITS CMOS VLSI LOGIC DESIGN DIGITAL SYSTEMS SEMICONDUCTOR DEVICES FABRICATION DESIGN TECHNIQUES DIGITAL IC DESIGN ELECTRONIC ENGINEERING THE BOOK DELVES DEEP INTO THE REALM OF DIGITAL INTEGRATED CIRCUITS STARTING WITH FUNDAMENTAL CONCEPTS LIKE BOOLEAN ALGEBRA AND LOGIC GATES IT THEN PROGRESSES TO COVER KEY TOPICS SUCH AS CMOS TECHNOLOGY THE BOOK PROVIDES A DETAILED EXPLANATION OF CMOS TECHNOLOGY INCLUDING ITS ADVANTAGES FABRICATION PROCESSES AND CHARACTERISTICS LOGIC DESIGN IT GUIDES STUDENTS THROUGH THE PROCESS OF DESIGNING DIGITAL CIRCUITS USING VARIOUS LOGIC GATES AND BUILDING BLOCKS COMBINATIONAL AND SEQUENTIAL CIRCUITS THE TEXT THOROUGHLY EXAMINES COMBINATIONAL CIRCUITS LIKE ADDERS DECODERS AND MULTIPLEXERS AS WELL AS SEQUENTIAL CIRCUITS LIKE LATCHES FLIPFLOPS AND COUNTERS DIGITAL SYSTEM DESIGN THE BOOK EQUIPS STUDENTS WITH THE KNOWLEDGE TO DESIGN COMPLEX DIGITAL SYSTEMS USING PROGRAMMABLE LOGIC DEVICES PLDs AND FIELDPROGRAMMABLE GATE ARRAYS FPGAs ADVANCED TOPICS IT EXPLORES ADVANCED CONCEPTS LIKE MEMORY DESIGN DIGITAL SIGNAL PROCESSING AND DIGITAL COMMUNICATION SYSTEMS THROUGHOUT THE BOOK CLEAR EXPLANATIONS NUMEROUS ILLUSTRATIONS AND PRACTICAL EXAMPLES ENHANCE THE LEARNING PROCESS EACH CHAPTER ENDS WITH A SET OF EXERCISES ALLOWING STUDENTS TO SOLIDIFY THEIR UNDERSTANDING AND APPLY THEIR NEWLY ACQUIRED KNOWLEDGE THOUGHTPROVOKING CONCLUSION THE REALM OF DIGITAL INTEGRATED CIRCUITS IS CONSTANTLY EVOLVING PUSHING THE BOUNDARIES OF WHAT IS POSSIBLE AS MOORES LAW CONTINUES ITS RELENTLESS MARCH WE ARE SEEING EVERINCREASING 2 INTEGRATION AND COMPLEXITY IN DIGITAL DEVICES THIS BOOK SERVES AS A FOUNDATION FOR STUDENTS TO NAVIGATE THIS EXCITING LANDSCAPE EQUIPPING THEM WITH THE SKILLS AND KNOWLEDGE TO DESIGN AND INNOVATE IN THE DIGITAL WORLD UNIQUE FAQs 1 WHAT IS THE TARGET AUDIENCE FOR THIS BOOK THIS BOOK IS PRIMARILY INTENDED FOR UNDERGRADUATE AND GRADUATE STUDENTS IN ELECTRICAL ENGINEERING COMPUTER ENGINEERING AND RELATED DISCIPLINES IT ALSO SERVES AS A VALUABLE RESOURCE FOR PRACTICING ENGINEERS LOOKING TO ENHANCE THEIR UNDERSTANDING OF DIGITAL CIRCUIT DESIGN AND FABRICATION 2 WHAT IS THE BOOKS APPROACH TO TEACHING DIGITAL CIRCUIT DESIGN THE BOOK ADOPTS A PRACTICAL AND HANDSON APPROACH COMBINING THEORETICAL EXPLANATIONS WITH REALWORLD EXAMPLES AND CASE STUDIES IT EMPHASIZES THE IMPORTANCE OF UNDERSTANDING THE PHYSICAL LIMITATIONS OF INTEGRATED CIRCUITS AND HOW THESE LIMITATIONS AFFECT DESIGN CHOICES 3 HOW DOES THIS EDITION DIFFER FROM THE PREVIOUS EDITION THE SECOND EDITION HAS BEEN THOROUGHLY UPDATED TO REFLECT THE LATEST ADVANCEMENTS IN INTEGRATED CIRCUIT TECHNOLOGY IT INCLUDES NEW CHAPTERS ON EMERGING TECHNOLOGIES LIKE FINFETs AND 3DICs AS WELL AS EXPANDED COVERAGE OF TOPICS LIKE DIGITAL SIGNAL PROCESSING AND LOW POWER DESIGN 4 DOES THE BOOK COVER SOFTWARE TOOLS FOR DIGITAL CIRCUIT DESIGN WHILE THE BOOK FOCUSES ON THE FUNDAMENTAL PRINCIPLES OF DIGITAL CIRCUIT DESIGN IT DOES MENTION POPULAR SOFTWARE TOOLS LIKE SPICE AND VERILOG IT ENCOURAGES STUDENTS TO EXPLORE THESE TOOLS FURTHER TO GAIN PRACTICAL EXPERIENCE IN DESIGNING AND SIMULATING DIGITAL CIRCUITS 5 HOW WILL LEARNING ABOUT DIGITAL INTEGRATED CIRCUITS BENEFIT ME IN THE FUTURE THE KNOWLEDGE AND SKILLS YOU ACQUIRE FROM THIS BOOK WILL BE VALUABLE ACROSS A WIDE RANGE OF INDUSTRIES INCLUDING ELECTRONICS COMPUTING TELECOMMUNICATIONS AND AUTOMOTIVE UNDERSTANDING THE FUNDAMENTAL PRINCIPLES OF DIGITAL CIRCUITS WILL ENABLE YOU TO DEVELOP INNOVATIVE SOLUTIONS FOR COMPLEX TECHNOLOGICAL CHALLENGES

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