

# DIGITAL CIRCUIT DESIGN INTERVIEW QUESTIONS

**DIGITAL CIRCUIT DESIGN INTERVIEW QUESTIONS** ARE ESSENTIAL FOR ASSESSING THE KNOWLEDGE AND SKILLS OF CANDIDATES ASPIRING TO WORK IN THE FIELD OF ELECTRONICS AND EMBEDDED SYSTEMS. THESE QUESTIONS TYPICALLY COVER A BROAD RANGE OF TOPICS INCLUDING LOGIC GATES, FLIP-FLOPS, TIMING ANALYSIS, SEQUENTIAL CIRCUITS, AND DESIGN METHODOLOGIES. UNDERSTANDING THESE CONCEPTS IS CRUCIAL FOR DESIGNING EFFICIENT AND RELIABLE DIGITAL SYSTEMS USED IN VARIOUS APPLICATIONS SUCH AS MICROPROCESSORS, COMMUNICATION DEVICES, AND CONSUMER ELECTRONICS. THIS ARTICLE PROVIDES A COMPREHENSIVE OVERVIEW OF THE MOST COMMONLY ASKED DIGITAL CIRCUIT DESIGN INTERVIEW QUESTIONS, CATEGORIZED BY FUNDAMENTAL TOPICS TO HELP CANDIDATES PREPARE EFFECTIVELY. FROM BASIC DIGITAL LOGIC TO ADVANCED DESIGN TECHNIQUES, THE FOLLOWING SECTIONS EXPLORE KEY CONCEPTS AND PRACTICAL QUESTIONS OFTEN ENCOUNTERED DURING TECHNICAL INTERVIEWS. ADDITIONALLY, THIS GUIDE INCLUDES DETAILED EXPLANATIONS AND EXAMPLES TO ENHANCE UNDERSTANDING AND RETENTION OF IMPORTANT PRINCIPLES IN DIGITAL CIRCUIT DESIGN.

- FUNDAMENTALS OF DIGITAL LOGIC
- COMBINATIONAL CIRCUIT DESIGN
- SEQUENTIAL CIRCUIT DESIGN
- TIMING AND CLOCKING CONCEPTS
- DESIGN METHODOLOGIES AND TOOLS
- PRACTICAL INTERVIEW QUESTIONS AND SOLUTIONS

## FUNDAMENTALS OF DIGITAL LOGIC

UNDERSTANDING THE BASICS OF DIGITAL LOGIC IS THE FOUNDATION OF DIGITAL CIRCUIT DESIGN. THIS SECTION COVERS CORE CONCEPTS SUCH AS LOGIC GATES, BOOLEAN ALGEBRA, AND BINARY ARITHMETIC, WHICH ARE VITAL FOR INTERPRETING AND CREATING DIGITAL CIRCUITS. INTERVIEW QUESTIONS IN THIS AREA TEST A CANDIDATE'S GRASP OF HOW DIGITAL SIGNALS ARE PROCESSED AT THE GATE LEVEL AND THEIR ABILITY TO SIMPLIFY LOGICAL EXPRESSIONS FOR CIRCUIT OPTIMIZATION.

## LOGIC GATES AND THEIR FUNCTIONS

LOGIC GATES ARE THE BUILDING BLOCKS OF DIGITAL CIRCUITS. COMMON GATES INCLUDE AND, OR, NOT, NAND, NOR, XOR, AND XNOR. EACH GATE PERFORMS A SPECIFIC LOGICAL OPERATION BASED ON BINARY INPUTS TO PRODUCE AN OUTPUT. INTERVIEW QUESTIONS OFTEN ASK ABOUT TRUTH TABLES, SYMBOLIC REPRESENTATIONS, AND APPLICATIONS OF THESE GATES IN CIRCUIT DESIGN.

## BOOLEAN ALGEBRA AND SIMPLIFICATION

BOOLEAN ALGEBRA PROVIDES THE MATHEMATICAL FRAMEWORK FOR ANALYZING AND SIMPLIFYING DIGITAL LOGIC CIRCUITS. CANDIDATES SHOULD BE FAMILIAR WITH LAWS AND THEOREMS SUCH AS DE MORGAN'S THEOREMS, DISTRIBUTIVE, ASSOCIATIVE, AND COMMUTATIVE PROPERTIES. SIMPLIFICATION TECHNIQUES HELP REDUCE CIRCUIT COMPLEXITY AND IMPROVE EFFICIENCY, WHICH IS FREQUENTLY TESTED THROUGH PROBLEM-SOLVING QUESTIONS.

## NUMBER SYSTEMS AND BINARY ARITHMETIC

DIGITAL CIRCUITS OPERATE USING BINARY NUMBERS, SO UNDERSTANDING DIFFERENT NUMBER SYSTEMS (BINARY, OCTAL, DECIMAL,

HEXADECIMAL) AND CONVERSIONS BETWEEN THEM IS CRUCIAL. ADDITIONALLY, QUESTIONS OFTEN FOCUS ON ARITHMETIC OPERATIONS LIKE ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION IN BINARY, INCLUDING THE USE OF SIGNED NUMBER REPRESENTATIONS SUCH AS TWO'S COMPLEMENT.

## COMBINATIONAL CIRCUIT DESIGN

COMBINATIONAL CIRCUITS PRODUCE OUTPUTS BASED SOLELY ON CURRENT INPUTS WITHOUT MEMORY ELEMENTS. THIS SECTION DISCUSSES THE PRINCIPLES OF DESIGNING COMBINATIONAL LOGIC, COMMON CIRCUIT TYPES, AND OPTIMIZATION TECHNIQUES. INTERVIEWERS EVALUATE THE ABILITY TO DESIGN AND TROUBLESHOOT CIRCUITS LIKE MULTIPLEXERS, DECODERS, AND ADDERS.

### MULTIPLEXERS AND DEMULTIPLEXERS

MULTIPLEXERS (MUX) SELECT ONE INPUT FROM MULTIPLE INPUTS AND FORWARD IT TO A SINGLE OUTPUT LINE BASED ON SELECTOR INPUTS. DEMULTIPLEXERS (DEMUX) PERFORM THE INVERSE OPERATION. CANDIDATES SHOULD KNOW THE WORKING PRINCIPLES, TRUTH TABLES, AND PRACTICAL APPLICATIONS OF THESE DEVICES.

### ADDERS AND SUBTRACTORS

ADDERS ARE FUNDAMENTAL ARITHMETIC CIRCUITS USED TO PERFORM ADDITION OPERATIONS. HALF ADDERS AND FULL ADDERS DIFFER BY THE NUMBER OF INPUTS THEY HANDLE. SIMILARLY, SUBTRACTORS PERFORM SUBTRACTION USING TECHNIQUES LIKE BORROW GENERATION. INTERVIEW QUESTIONS MIGHT INCLUDE DESIGNING THESE CIRCUITS OR EXPLAINING THEIR FUNCTIONALITY.

### ENCODERS AND DECODERS

ENCODERS CONVERT MULTIPLE INPUTS INTO A CODED OUTPUT, WHILE DECODERS PERFORM THE REVERSE OPERATION. THESE CIRCUITS ARE ESSENTIAL IN DATA ROUTING AND MEMORY ADDRESSING. UNDERSTANDING THEIR LOGIC AND IMPLEMENTATION IS OFTEN TESTED DURING INTERVIEWS.

- DESIGN AND ANALYZE TRUTH TABLES
- CONSTRUCT COMBINATIONAL CIRCUITS USING LOGIC GATES
- OPTIMIZE CIRCUITS USING KARNAUGH MAPS OR BOOLEAN ALGEBRA

## SEQUENTIAL CIRCUIT DESIGN

SEQUENTIAL CIRCUITS DEPEND ON BOTH CURRENT INPUTS AND PAST STATES, INCORPORATING MEMORY ELEMENTS TO STORE INFORMATION. THIS SECTION FOCUSES ON FLIP-FLOPS, REGISTERS, COUNTERS, AND FINITE STATE MACHINES, WHICH ARE CRITICAL ELEMENTS IN DIGITAL SYSTEMS. INTERVIEW QUESTIONS ASSESS KNOWLEDGE OF TIMING, STATE TRANSITIONS, AND CIRCUIT DESIGN INVOLVING SEQUENTIAL LOGIC.

### FLIP-FLOPS AND LATCHES

FLIP-FLOPS ARE BISTABLE DEVICES USED TO STORE A SINGLE BIT OF DATA, WITH TYPES INCLUDING SR, D, JK, AND T FLIP-FLOPS. LATCHES ARE LEVEL-SENSITIVE MEMORY ELEMENTS, WHEREAS FLIP-FLOPS ARE EDGE-TRIGGERED. CANDIDATES ARE OFTEN ASKED TO EXPLAIN THEIR WORKING PRINCIPLES, TIMING DIAGRAMS, AND DIFFERENCES.

## REGISTERS AND COUNTERS

REGISTERS ARE GROUPS OF FLIP-FLOPS USED TO STORE MULTIPLE BITS OF DATA. COUNTERS ARE SEQUENTIAL CIRCUITS THAT COUNT PULSES AND CAN BE SYNCHRONOUS OR ASYNCHRONOUS. INTERVIEW QUESTIONS MAY INVOLVE DESIGNING THESE CIRCUITS OR EXPLAINING THEIR OPERATION MODES AND TIMING CONSTRAINTS.

## FINITE STATE MACHINES (FSM)

FSMS ARE ABSTRACT MODELS USED TO DESIGN SEQUENTIAL LOGIC CIRCUITS BY DEFINING STATES, TRANSITIONS, INPUTS, AND OUTPUTS. UNDERSTANDING MEALY AND MOORE MACHINE MODELS IS CRUCIAL. CANDIDATES MAY BE ASKED TO DRAW STATE DIAGRAMS, CREATE STATE TABLES, OR IMPLEMENT FSMS USING FLIP-FLOPS.

## TIMING AND CLOCKING CONCEPTS

TIMING ANALYSIS ENSURES THAT DIGITAL CIRCUITS OPERATE CORRECTLY WITHIN SPECIFIED CLOCK CYCLES. THIS SECTION ADDRESSES SETUP AND HOLD TIMES, PROPAGATION DELAY, CLOCK SKEW, AND SYNCHRONIZATION ISSUES. MASTERY OF THESE CONCEPTS IS ESSENTIAL FOR DESIGNING RELIABLE HIGH-SPEED CIRCUITS AND IS FREQUENTLY EVALUATED IN INTERVIEWS.

### SETUP AND HOLD TIME

SETUP TIME IS THE MINIMUM TIME BEFORE THE CLOCK EDGE THAT DATA MUST BE STABLE, WHILE HOLD TIME IS THE MINIMUM TIME AFTER THE CLOCK EDGE THAT DATA MUST REMAIN STABLE. VIOLATIONS OF THESE TIMING REQUIREMENTS CAN CAUSE METASTABILITY AND ERRONEOUS OUTPUTS. INTERVIEW QUESTIONS TEST UNDERSTANDING OF THESE PARAMETERS AND THEIR IMPACT ON CIRCUIT PERFORMANCE.

### PROPAGATION DELAY AND TIMING ANALYSIS

PROPAGATION DELAY REFERS TO THE TIME TAKEN FOR A SIGNAL TO PROPAGATE THROUGH A DIGITAL CIRCUIT ELEMENT. TIMING ANALYSIS INVOLVES CALCULATING DELAYS ALONG CRITICAL PATHS TO ENSURE SIGNALS ARRIVE WITHIN TIMING CONSTRAINTS. CANDIDATES MAY BE ASKED TO COMPUTE DELAYS OR EXPLAIN TIMING DIAGRAMS.

### CLOCK SKEW AND SYNCHRONIZATION

CLOCK SKEW IS THE DIFFERENCE IN ARRIVAL TIMES OF THE CLOCK SIGNAL AT DIFFERENT COMPONENTS, WHICH CAN LEAD TO TIMING ERRORS. SYNCHRONIZATION TECHNIQUES, SUCH AS USING FLIP-FLOP CHAINS OR CLOCK DISTRIBUTION NETWORKS, MITIGATE THESE ISSUES. INTERVIEW QUESTIONS OFTEN EXPLORE THESE CHALLENGES AND SOLUTIONS IN DIGITAL DESIGN.

## DESIGN METHODOLOGIES AND TOOLS

MODERN DIGITAL CIRCUIT DESIGN RELIES ON STRUCTURED METHODOLOGIES AND SPECIALIZED SOFTWARE TOOLS. THIS SECTION HIGHLIGHTS POPULAR DESIGN APPROACHES, SIMULATION TECHNIQUES, AND HARDWARE DESCRIPTION LANGUAGES (HDLs) USED IN INDUSTRY. INTERVIEWERS ASSESS FAMILIARITY WITH THESE METHODS AND THE ABILITY TO APPLY THEM EFFECTIVELY.

### HARDWARE DESCRIPTION LANGUAGES (HDLs)

HDLs SUCH AS VHDL AND VERILOG ENABLE DESIGNERS TO DESCRIBE DIGITAL CIRCUITS AT VARIOUS ABSTRACTION LEVELS. PROFICIENCY IN WRITING AND INTERPRETING HDL CODE IS COMMONLY TESTED, INCLUDING THE ABILITY TO MODEL COMBINATIONAL AND SEQUENTIAL LOGIC.

## SIMULATION AND VERIFICATION

SIMULATION TOOLS VALIDATE CIRCUIT BEHAVIOR BEFORE PHYSICAL IMPLEMENTATION, REDUCING ERRORS AND DEVELOPMENT TIME. VERIFICATION METHODOLOGIES INCLUDE FUNCTIONAL SIMULATION, TIMING SIMULATION, AND FORMAL VERIFICATION. CANDIDATES MAY BE ASKED ABOUT SIMULATION ENVIRONMENTS AND DEBUGGING TECHNIQUES.

## DESIGN FOR TESTABILITY (DFT)

DFT TECHNIQUES IMPROVE THE ABILITY TO TEST DIGITAL CIRCUITS AFTER FABRICATION, ENSURING RELIABILITY AND FAULT DETECTION. COMMON METHODS INCLUDE SCAN CHAINS AND BUILT-IN SELF-TEST (BIST). UNDERSTANDING THESE CONCEPTS IS IMPORTANT FOR DESIGNING CIRCUITS THAT ARE EASIER TO MANUFACTURE AND MAINTAIN.

## PRACTICAL INTERVIEW QUESTIONS AND SOLUTIONS

THIS SECTION PRESENTS TYPICAL DIGITAL CIRCUIT DESIGN INTERVIEW QUESTIONS ALONG WITH DETAILED EXPLANATIONS AND SOLUTIONS. THESE EXAMPLES DEMONSTRATE THE APPLICATION OF THEORETICAL KNOWLEDGE TO REAL-WORLD DESIGN CHALLENGES ENCOUNTERED DURING INTERVIEWS.

### EXAMPLE QUESTION 1: DESIGN A 4-BIT BINARY COUNTER

THE CANDIDATE IS ASKED TO DESIGN A 4-BIT SYNCHRONOUS BINARY COUNTER USING JK FLIP-FLOPS. THE SOLUTION INVOLVES CONNECTING FLIP-FLOPS IN A WAY THAT THE OUTPUT OF ONE TRIGGERS THE NEXT, ENSURING SYNCHRONOUS OPERATION. TIMING CONSIDERATIONS AND STATE TRANSITIONS MUST BE EXPLAINED CLEARLY.

### EXAMPLE QUESTION 2: SIMPLIFY A BOOLEAN EXPRESSION

GIVEN A COMPLEX BOOLEAN EXPRESSION, THE CANDIDATE MUST SIMPLIFY IT USING BOOLEAN ALGEBRA OR KARNAUGH MAPS. THE SOLUTION SHOULD SHOW STEP-BY-STEP REDUCTION TO THE MINIMAL FORM AND ILLUSTRATE HOW THIS SIMPLIFICATION IMPROVES CIRCUIT EFFICIENCY.

### EXAMPLE QUESTION 3: EXPLAIN METASTABILITY IN FLIP-FLOPS

METASTABILITY OCCURS WHEN A FLIP-FLOP'S INPUT CHANGES NEAR THE CLOCK EDGE, CAUSING UNPREDICTABLE OUTPUT. THE CANDIDATE SHOULD DESCRIBE CAUSES, EFFECTS, AND MITIGATION TECHNIQUES SUCH AS SYNCHRONIZER CIRCUITS. THIS DEMONSTRATES AN UNDERSTANDING OF TIMING CHALLENGES IN SEQUENTIAL CIRCUITS.

1. ANALYZE CIRCUIT REQUIREMENTS THOROUGHLY
2. APPLY APPROPRIATE DESIGN TECHNIQUES AND SIMPLIFICATIONS
3. CONSIDER TIMING AND SYNCHRONIZATION CONSTRAINTS
4. VALIDATE DESIGNS THROUGH SIMULATION AND VERIFICATION

## FREQUENTLY ASKED QUESTIONS

### WHAT IS THE DIFFERENCE BETWEEN COMBINATIONAL AND SEQUENTIAL CIRCUITS IN DIGITAL DESIGN?

COMBINATIONAL CIRCUITS OUTPUT DEPENDS SOLELY ON THE CURRENT INPUTS, WITH NO MEMORY OF PAST INPUTS. SEQUENTIAL CIRCUITS HAVE MEMORY ELEMENTS, SO THEIR OUTPUT DEPENDS ON BOTH CURRENT INPUTS AND PAST STATES.

### EXPLAIN SETUP TIME AND HOLD TIME IN FLIP-FLOPS.

SETUP TIME IS THE MINIMUM TIME BEFORE THE CLOCK EDGE THAT THE DATA INPUT MUST BE STABLE. HOLD TIME IS THE MINIMUM TIME AFTER THE CLOCK EDGE THAT THE DATA INPUT MUST REMAIN STABLE TO ENSURE CORRECT DATA IS CAPTURED.

### WHAT ARE THE COMMON TYPES OF FLIP-FLOPS USED IN DIGITAL CIRCUIT DESIGN?

THE MOST COMMON FLIP-FLOPS ARE SR (SET-RESET), D (DATA OR DELAY), JK, AND T (TOGGLE) FLIP-FLOPS, EACH DIFFERING IN INPUT FUNCTIONALITY AND USAGE.

### HOW DO YOU MINIMIZE PROPAGATION DELAY IN A DIGITAL CIRCUIT?

PROPAGATION DELAY CAN BE MINIMIZED BY USING FASTER LOGIC FAMILIES, OPTIMIZING THE CIRCUIT LAYOUT TO REDUCE WIRE LENGTHS, USING PIPELINING, AND REDUCING THE NUMBER OF GATE LEVELS IN CRITICAL PATHS.

### WHAT IS METASTABILITY IN DIGITAL CIRCUITS AND HOW CAN IT BE MITIGATED?

METASTABILITY OCCURS WHEN A FLIP-FLOP FAILS TO RESOLVE TO A STABLE '0' OR '1' STATE WITHIN THE REQUIRED TIME, OFTEN DUE TO ASYNCHRONOUS INPUTS. IT CAN BE MITIGATED BY SYNCHRONIZING ASYNCHRONOUS SIGNALS USING MULTI-STAGE FLIP-FLOPS AND ENSURING PROPER TIMING CONSTRAINTS.

## ADDITIONAL RESOURCES

#### 1. "DIGITAL DESIGN AND COMPUTER ARCHITECTURE: ARM EDITION"

THIS BOOK PROVIDES A COMPREHENSIVE INTRODUCTION TO DIGITAL DESIGN AND COMPUTER ARCHITECTURE WITH A FOCUS ON ARM PROCESSORS. IT COVERS FUNDAMENTAL CONCEPTS, PRACTICAL DESIGN TECHNIQUES, AND OFFERS NUMEROUS EXAMPLES THAT HELP READERS UNDERSTAND DIGITAL CIRCUITS DEEPLY. IDEAL FOR INTERVIEW PREPARATION, IT INCLUDES PROBLEM SETS AND REAL-WORLD APPLICATIONS.

#### 2. "DIGITAL LOGIC DESIGN INTERVIEW QUESTIONS AND ANSWERS"

A FOCUSED GUIDE THAT COMPILES ESSENTIAL INTERVIEW QUESTIONS AND ANSWERS RELATED TO DIGITAL LOGIC DESIGN. IT COVERS TOPICS SUCH AS COMBINATIONAL AND SEQUENTIAL CIRCUITS, FLIP-FLOPS, MULTIPLEXERS, AND MORE. THIS BOOK IS PERFECT FOR QUICK REVISIONS AND GAINING CONFIDENCE BEFORE INTERVIEWS.

#### 3. "FUNDAMENTALS OF DIGITAL LOGIC WITH VERILOG DESIGN"

THIS BOOK INTRODUCES THE BASICS OF DIGITAL LOGIC DESIGN ALONGSIDE VERILOG HARDWARE DESCRIPTION LANGUAGE. IT EMPHASIZES PRACTICAL DESIGN AND VERIFICATION TECHNIQUES, MAKING IT USEFUL FOR CANDIDATES PREPARING FOR TECHNICAL INTERVIEWS IN DIGITAL CIRCUIT DESIGN ROLES. THE TEXT INCLUDES NUMEROUS EXAMPLES AND EXERCISES.

#### 4. "DIGITAL CIRCUIT DESIGN: INTERVIEW QUESTIONS AND ANSWERS"

A CONCISE COLLECTION OF INTERVIEW QUESTIONS SPECIFICALLY TARGETING DIGITAL CIRCUIT DESIGN CONCEPTS. IT COVERS A WIDE ARRAY OF TOPICS INCLUDING BOOLEAN ALGEBRA, LOGIC GATES, TIMING ANALYSIS, AND CIRCUIT OPTIMIZATION. THE ANSWERS ARE DETAILED, HELPING READERS GRASP COMPLEX IDEAS QUICKLY.

#### 5. "CMOS VLSI DESIGN: A CIRCUITS AND SYSTEMS PERSPECTIVE"

THIS AUTHORITATIVE TEXT EXPLAINS THE DESIGN PRINCIPLES OF CMOS DIGITAL CIRCUITS AND VLSI SYSTEMS. WHILE IT IS A

TEXTBOOK, IT ALSO SERVES AS AN EXCELLENT RESOURCE FOR INTERVIEW PREPARATION BY PROVIDING IN-DEPTH EXPLANATIONS OF TRANSISTOR-LEVEL DESIGN AND CIRCUIT PERFORMANCE CONSIDERATIONS. THE BOOK BRIDGES THEORY WITH PRACTICAL DESIGN CHALLENGES.

6. *"DIGITAL ELECTRONICS: PRINCIPLES, DEVICES AND APPLICATIONS"*

OFFERING A THOROUGH OVERVIEW OF DIGITAL ELECTRONICS, THIS BOOK COVERS DEVICES, CIRCUITS, AND APPLICATIONS RELEVANT TO DIGITAL CIRCUIT DESIGN INTERVIEWS. IT INCLUDES CLEAR EXPLANATIONS OF LOGIC FAMILIES, MEMORY DEVICES, AND PROGRAMMABLE LOGIC. THE PRACTICAL APPROACH AIDS READERS IN UNDERSTANDING BOTH THEORY AND REAL-WORLD IMPLEMENTATION.

7. *"VERILOG BY EXAMPLE: A CONCISE INTRODUCTION FOR FPGA DESIGN"*

FOCUSED ON VERILOG HDL, THIS BOOK IS IDEAL FOR CANDIDATES PREPARING FOR INTERVIEWS INVOLVING FPGA AND DIGITAL CIRCUIT CODING. IT PRESENTS PRACTICAL EXAMPLES THAT DEMONSTRATE THE DESIGN OF COMBINATIONAL AND SEQUENTIAL CIRCUITS. THE HANDS-ON STYLE HELPS READERS QUICKLY BUILD CODING AND DESIGN SKILLS.

8. *"DIGITAL SYSTEMS: PRINCIPLES AND APPLICATIONS"*

THIS BOOK OFFERS A BROAD PERSPECTIVE ON DIGITAL SYSTEMS DESIGN, COVERING FOUNDATIONAL TOPICS SUCH AS BOOLEAN ALGEBRA, ARITHMETIC CIRCUITS, AND MICROPROCESSOR BASICS. ITS COMPREHENSIVE APPROACH MAKES IT USEFUL FOR INTERVIEWEES WHO WANT TO STRENGTHEN THEIR UNDERSTANDING OF DIGITAL CIRCUIT FUNDAMENTALS AND SYSTEM-LEVEL DESIGN.

9. *"INTERVIEW QUESTIONS ON DIGITAL ELECTRONICS"*

A SPECIALIZED INTERVIEW GUIDE THAT COMPILES QUESTIONS FREQUENTLY ASKED IN DIGITAL ELECTRONICS AND CIRCUIT DESIGN JOB INTERVIEWS. IT INCLUDES DETAILED EXPLANATIONS OF CONCEPTS SUCH AS FLIP-FLOPS, COUNTERS, ADC/DAC, AND TIMING ANALYSIS. THE BOOK IS A HANDY REFERENCE FOR QUICK PREPARATION AND CONCEPT REINFORCEMENT.

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