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VHDL Design teaches the basic design techniques for logic circuits. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small examples, which are easy to

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understand. Then, a modular approach is used to show how larger circuits are designed. VHDL is used to demonstrate how the basic building blocks and larger systems are defined in a hardware description language, producing designs that can be implemented with

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modern CAD tools.

The book emphasizes the concepts that should be covered in an introductory course on logic design, focusing on:

- Logic functions, gates, and rules of Boolean algebra*
- Circuit synthesis and optimization techniques*
- Number representation and*

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*arithmetic circuits
Combinational-circuit
building blocks, such
as multiplexers,
decoders, encoders,
and code converters
Sequential-circuit
building blocks, such
as flip-flops,
registers, and
counters Design of
synchronous
sequential circuits
Use of the basic*

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*building blocks in
designing larger
systems It also
includes chapters
that deal with
important, but more
advanced topics:
Design of
asynchronous
sequential circuits
Testing of logic
circuits For students
who have had no
exposure to basic*

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electronics, but are interested in learning a few key concepts, there is a chapter that presents the most basic aspects of electronic implementation of digital circuits. Major changes in the second edition of the book include new examples to clarify the presentation of

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*fundamental
concepts over 50
new examples of
solved problems
provided at the end
of chapters NAND
and NOR gates now
introduced in
Chapter 2 more
complete discussion
of techniques for
minimization of logic
functions in Chapter
4 (including the*

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*tabular method) a
new chapter
explaining the CAD
flow for synthesis of
logic circuits Altera's
Quartus II CAD
software provided on
a CD-ROM three
appendices that give
tutorials on the use
of Quartus II
software
Electronics explained
in one volume, using*

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both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic

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circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular

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Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree

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and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce

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*learning and provide
a basis for further
practical work. A
companion website
at <http://www.key2electronics.com> offers
the reader a set of
spreadsheet design
tools that can be
used to simplify
circuit calculations,
as well as circuit
models and
templates that will*

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enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online

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questions for
lecturers to set as
assignments is also
available.

*For courses on
digital design in an
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Engineering,
Computer
Engineering, or
Computer Science
department. Digital
Design, fifth edition
is a modern update*

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of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital

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applications.

Market_Desc: · Undergraduate courses on digital logic design, computer architecture, and microprocessors. · Graduate students and practicing microprocessor system designers in industry. Special Features: · While

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most texts either focus on computer design or digital logic and digital systems, this book includes both areas, making it a unique addition to existing literature. · The author has an extensive background in computers and has published numerous

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*books on the subject.
He is undoubtedly
one of the leading
authorities in this
field.· This book
covers simple topics,
such as number
system and Boolean
algebra, to advanced
topics, such as
assembly language
programming and
microprocessor-
based system*

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design. The accompanying CD contains a step by step procedure for installing and using Altera Quartus II software for synthesizing Verilog and VHDL descriptions. Screen shots of the waveforms and tabular forms illustrating the

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simulation results are also provided in the CD. The CD also contains a step by step procedure for installing and using MASM 6.11 (8086) and 68asmsim (68000). Screen shots verifying correct operations of several assembly language programs via simulation using

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*test data are also
provided in the CD.*

*About The Book: This
book covers all basic
concepts of computer
engineering and
science from digital
logic circuits to the
design of a complete
microcomputer
system in a
methodical and basic
manner. Its intention
is to present a clear*

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understanding of the principles and basic tools required to design typical digital systems such as microcomputers. The book covers the latest version of Altera software called Quartus II. It provides a simplified introduction to VHDL along with a step by step procedure with

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tutorials on a CD. It is ideal for an introductory course in VHDL, containing digital logic and microprocessors along with both VHDL and Verilog. The material in the text is divided into three sections:· Fundamentals of digital logic circuits and design.· Micropr

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processor/microcomput
er design. Overview
of 16-, 32-, and 64-bit
microprocessors
manufactured by
Intel and Motorola.
Electronics
Simplified
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and Design with
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**to know more about
the electronics
revolution. No
previous knowledge
is assumed and by
focusing on how
systems work,
rather than on
details of circuit
diagrams and
calculations, this
book introduces
readers to the key
principles and**

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technology of modern electronics without needing access to expensive equipment or laboratories. This approach also enables students to gain a firm grasp of the principles they will be applying in the lab.

This book will teach students how to

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design digital logic circuits, specifically combinational and sequential circuits. Students will learn how to put these two types of circuits together to form dedicated and general-purpose microprocessors. This book is unique in that it combines the use of logic

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**principles and the
building of
individual**

**components to
create data paths
and control units,
and finally the
building of real
dedicated custom
microprocessors
and general-
purpose
microprocessors.**

After understanding

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**the material in the
book, students will
be able to design
simple**

**microprocessors
and implement them
in real hardware.**

**The omnipresence
of electronic
devices in our
everyday lives has
been accompanied
by the downscaling
of chip feature sizes**

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**and the ever
increasing
complexity of digital
circuits. This book
is devoted to the
analysis and design
of digital circuits,
where the signal
can assume only
two possible logic
levels. It deals with
the basic principles
and concepts of
digital electronics. It**

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**addresses all
aspects of
combinational logic
and provides a
detailed
understanding of
logic gates that are
the basic
components in the
implementation of
circuits used to
perform functions
and operations of
Boolean algebra.**

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Combinational logic circuits are characterized by outputs that depend only on the actual input values. Efficient techniques to derive logic equations are proposed together with methods of analysis and synthesis of combinational logic

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**circuits. Each
chapter is well
structured and is
supplemented by a
selection of solved
exercises covering
logic design
practices.**

**Unlike books
currently on the
market, this book
attempts to satisfy
two goals: combine
circuits and**

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**electronics into a
single, unified
treatment, and
establish a strong
connection with the
contemporary world
of digital systems. It
will introduce a new
way of looking not
only at the
treatment of
circuits, but also at
the treatment of
introductory**

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coursework in
engineering in
general. Using the
concept of
"abstraction," the
book attempts to
form a bridge
between the world
of physics and the
world of large
computer systems.
In particular, it
attempts to unify
electrical

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**engineering and
computer science
as the art of
creating and
exploiting
successive
abstractions to
manage the
complexity of
building useful
electrical systems.
Computer systems
are simply one type
of electrical**

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circuits theory with
practical digital
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applications.
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concepts with real
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the popular circuits
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become an
invaluable tool in
American industry, it
responds to the
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Fundamentals of
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teaches the basic
design techniques for

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logic circuits. The text provides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism. It emphasizes the synthesis of circuits and explains how circuits are implemented in real

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chips. Fundamental concepts are illustrated by using small examples, which are easy to understand. Then, a modular approach is used to show how larger circuits are designed. VHDL is a complex language so it is introduced gradually in the book. Each VHDL

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feature is presented as it becomes pertinent for the circuits being discussed. While it includes a discussion of VHDL, the book provides thorough coverage of the fundamental concepts of logic circuit design, independent of the use of VHDL and

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CAD tools. A CD-ROM containing all of the VHDL design examples used in the book, as well Altera's Quartus II CAD software, is included free with every text. The fundamentals and implementation of digital electronics are essential to understanding the design and working

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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.

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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

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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,
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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.

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components and
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*includes both
the classical
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in addition to
the modern
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description
language (HDL)
design*

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enables
readers to
design digital
systems using
the modern HDL
approach, but
they have a
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*foundation of
knowledge of
the underlying
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knowledge
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*presentation
with learning
Goals and
assessment at
its core. Each
section
addresses a
specific
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outcome that
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its
completion.*

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checks and
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problems
provide a rich
set of
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Design with
VHDL*

This book,
Electronic Devices

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and Circuit

Application, is the first of four books of a larger work, Fundamentals of Electronics. It is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics: operational

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amplifiers,
semiconductor
diodes, bipolar
junction transistors,
and field effect
transistors.

Attention is focused
on the reader
obtaining a clear
understanding of
each of the devices
when it is operated
in equilibrium. Ideas
fundamental to the

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study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level. The difference between linear and non-linear operation is explored through the use of a variety of circuit examples

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including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types.

Fundamentals of Electronics has been designed

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primarily for use in an upper division course in electronics for electrical engineering students. Typically such a course spans a full academic year consisting of two semesters or three quarters. As such, Electronic Devices and Circuit

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Applications, and
the following two

books, Amplifiers:

Analysis and Design
and Active Filters
and Amplifier

Frequency

Response, form an
appropriate body of
material for such a
course. Secondary
applications include
the use in a one-
semester

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for engineers or as a
reference for
practicing
engineers.

Digital Electronics
and Design with
VHDL offers a
friendly presentation
of the fundamental
principles and
practices of modern
digital design.

Unlike any other

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book in this field, transistor-level implementations are also included, which allow the readers to gain a solid understanding of a circuit's real potential and limitations, and to develop a realistic perspective on the practical design of actual integrated

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circuits. Coverage includes the largest selection available of digital circuits in all categories (combinational, sequential, logical, or arithmetic); and detailed digital design techniques, with a thorough discussion on state-machine modeling for the analysis and

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design of complex sequential systems.

Key technologies used in modern circuits are also described, including Bipolar, MOS, ROM/RAM, and CPLD/FPGA chips, as well as codes and techniques used in data storage and transmission.

Designs are

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illustrated by means
of complete,
realistic applications
using VHDL, where
the complete code,
comments, and
simulation results
are included. This
text is ideal for
courses in Digital
Design, Digital
Logic, Digital
Electronics, VLSI,
and VHDL; and

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industry
practitioners in
digital electronics.

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coverage of
fundamental digital
concepts and
principles, as well
as complete,
realistic, industry-
standard designs
Many circuits shown
with internal details
at the transistor-

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level, as in real
integrated circuits
Actual technologies
used in state-of-the-
art digital circuits
presented in
conjunction with
fundamental
concepts and
principles Six
chapters dedicated
to VHDL-based
techniques, with all
VHDL-based

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designs synthesized
onto CPLD/FPGA
chips

From one of the best-known and successful authors in the field comes this new edition of Digital Logic and State Machine Design. The text is concise and practical, and covers the important

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area of digital system design specifically for undergraduates. Comer's primary goal is to illustrate that sequential circuits can be designed using state machine techniques. These methods apply to sequential circuit design as efficiently

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as Boolean algebra and Karnaugh mapping methods apply to combinatorial design. After presenting the techniques, Comer proceeds directly into designing digital systems. This task consists of producing the schematic or block

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diagram of the system based on nothing more than a given set of specifications. The design serves as the basis for the construction of the actual hardware system. In the new Third Edition, Comer introduces state machines earlier than in previous

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editions, and adds
entire chapters on
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computer
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Design, has long
been hailed for its
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basic tools required to design typical digital systems such as microcomputers. In this Fifth Edition, the author focuses on computer design at three levels: the device level, the logic level, and the system level. Basic topics are covered, such as number systems

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Manual
and Boolean
algebra,
combinational and
sequential logic
design, as well as
more advanced
subjects such as
assembly language
programming and m
icroprocessor-based
system
design. Numerous
examples are
provided throughout

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the text. Coverage includes: Digital circuits at the gate and flip-flop levels Analysis and design of combinational and sequential circuits Microcomputer organization, architecture, and programming concepts Design of computer instruction sets,

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CPU, memory, and I/O System design features associated with popular microprocessors from Intel and Motorola Future plans in microprocessor development An instructor's manual, available upon request Additionally, the accompanying CD-ROM, contains s

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step-by-step procedures for installing and using Altera Quartus II software, MASM 6.11 (8086), and 68asmsim (68000), provides valuable simulation results via screen shots.

Fundamentals of
Digital Logic and
Microcomputer

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Design is an essential reference that will provide you with the fundamental tools you need to design typical digital systems.

Digital Computer
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Digital Electronics
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This book presents the basic concepts used in the design and analysis of digital systems and introduces the principles of digital computer organization and design.

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The third edition of Digital Logic Techniques provides a clear and comprehensive treatment of the representation of data, operations on data, combinational logic design, sequential logic, computer architecture, and practical digital circuits. A wealth of

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exercises and worked examples in each chapter give students valuable experience in applying the concepts and techniques discussed. Beginning with an objective comparison between analogue and digital representation of data, the author presents the Boolean algebra

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framework for digital electronics, develops combinational logic design from first principles, and presents cellular logic as an alternative structure more relevant than canonical forms to VLSI implementation. He then addresses sequential logic design and develops a strategy

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for designing finite state machines, giving students a solid foundation for more advanced studies in automata theory. The second half of the book focuses on the digital system as an entity. Here the author examines the implementation of logic systems in

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programmable hardware, outlines the specification of a system, explores arithmetic processors, and elucidates fault diagnosis. The final chapter examines the electrical properties of logic components, compares the different logic families, and highlights the problems

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*that can arise in
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*use Quartus CAD for
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circuits. The version
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compiler for the IEEE
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be able to: enter a design into the CAD system compile the design into a selected device simulate the functionality and timing of the resulting circuit implement the designs in actual devices (using the school's laboratory facilities) Verilog is a complex language, so it

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and timing of
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