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Syllabus by S S Kiran Sir, STLD Live
Session 1: Switching Circuits and
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Classification of sequential circuits
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Basic flip-flops-Triggering and
excitation tables. Steps in
synchronous sequential circuit design.

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Switching circuit theory is the
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a function of the present state of their

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Inputs; or may also contain sequential elements, where the present state depends on the present state and past states; in that sense, sequential circuits are said to ...

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Logic Design 2nd Edition is designed for the undergraduate students of electronics and communication engineering, electrical...

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To understand the concepts and techniques associated with the number systems and codes 2. To understand the simplification methods (Boolean algebra & ... Design and analyze various combinational circuits like decoders, encoders, multiplexers, and de -multiplexers, ...

SWITCHING THEORY AND LOGIC CIRCUITS

1. Switching & Finite Automata theory

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□ Zvi Kohavi and Neeraj K Jha, 3rd Edition, Cambridge. 2. Digital Design □ Morris Mano, PHI, 3rd Edition.

REFERENCE BOOKS: 1. Introduction to Switching Theory and Logic Design □ Fredriac J Hill, Gerald R Peterson, 3rd Edition, John Willey and Sons Inc, 2.

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Introduction to Switching Theory and Logical Design by ...

Switching Circuits and Logic Design.

By Prof. Indranil Sengupta | IIT

Kharagpur This course will discuss the basic background of switching circuits, and discuss techniques for mapping the theory to actual hardware circuits.

Synthesis and minimization techniques of combinational and sequential circuits shall be discussed in detail.

Switching Circuits and Logic Design - Course

Course Description: This course provides a review of number systems,

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coding and Boolean Algebra; inputs and outputs; gates and gating networks; combinatorial circuits; standard form; minimization; sequential circuits; state and machine equivalence; asynchronous sequential circuits; race conditions; algorithmic state machines; and design of digital sub-systems

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Switching Theory and Logic Design by Anand Kumar. Check out the Switching Theory and Logic Design textbook by Anand Kumar Pdf free download. The simple form of this book is STLD. This book is mainly useful for Electronics and Communication Engineering (ECE) and Electronics and Telecommunication Engineering) of undergraduate students. The author Anand Kumar clearly explained about Switching Theory and Logic Design Subject by using simple language.

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Switching circuit theory provided the mathematical foundations and tools for digital system design in almost all areas of modern technology. From 1934 to 1936, NEC engineer Akira Nakashima published a series of papers showing that the two-valued Boolean algebra, which he discovered independently, can describe the operation of switching circuits.

Switching circuit theory - Wikipedia
Switching Theory & Logic Design of Digital Circuits Complete course on digital logic ,Boolean theorems, minimizations , k-map, combinational and sequential logic circuits ! New

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This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also

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be useful to AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts.

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Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level of understanding of the subject and prepare for examinations confidently.

NEW TO THIS EDITION

- VHDL programs at the end of each chapter
- Complete answers with figures
- Several new problems with answers

Fundamentals of Switching Theory and Logic Design discusses the basics of switching theory and logic design from a slightly alternative point of view and also presents links between switching theory and related areas of signal processing and system theory. Switching theory is a branch of applied mathematic providing mathematical foundations for logic design, which can

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be considered as a part of digital system design concerning realizations of systems whose inputs and outputs are described by logic functions.

This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and computers engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to M.Sc (electronics), M.Sc (computers), AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Third Edition, provides an in-depth knowledge of switching theory and the

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Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level

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of understanding of the subject and
prepare for examinations confidently.

Switching Theory and Logic Design: For JNTUK is designed as an ideal textbook for students of electronics and communication engineering and electrical and electronics engineering. Spread across 11 chapters, the book's coverage includes computer-based minimization techniques, and synchronous and asynchronous mode circuits, as well as in-depth discussions of code converters, comparators, and PLDs.

Switching Theory and Logic Design is for a first-level introductory course on

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This book illustrates the usefulness of switching theory and its applications, with examples to acquaint the student with the necessary background. This book has been designed as a prerequisite to many other courses like Digital Integrated Circuits, Computer Organisation, Digital Instrumentation, Digital Control, Digital Communications and Hardware Description Languages.

Switching Theory for Logic Synthesis covers the basic topics of switching theory and logic synthesis in fourteen chapters. Chapters 1 through 5 provide the mathematical foundation. Chapters 6 through 8 include an introduction to sequential circuits, optimization of sequential machines and asynchronous sequential circuits.

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Chapters 9 through 14 are the main feature of the book. These chapters introduce and explain various topics that make up the subject of logic synthesis: multi-valued input two-valued output function, logic design for PLDs/FPGAs, EXOR-based design, and complexity theories of logic networks. An appendix providing a history of switching theory is included. The reference list consists of over four hundred entries. Switching Theory for Logic Synthesis is based on the author's lectures at Kyushu Institute of Technology as well as seminars for CAD engineers from various Japanese technology companies. Switching Theory for Logic Synthesis will be of interest to CAD professionals and students at the advanced level. It is also useful as a textbook, as each chapter contains examples,

Where To Download Switching Theory And Illustrations, and exercises. Edition

Teaches switching theory in logic and computer system design, and discusses new design methods. Includes hitherto unpublished material on combinatorial networks and sequential networks design with given building blocks.

Number Systems and Codes
Philosophy of number systems - complement representation of negative numbers - binary arithmetic - binary codes - error detecting and error correcting codes - hamming codes.
Boolean Algebra and Switching Functions
Fundamental postulates of Boolean Algebra - Basic theorems and properties - switching functions - Canonical and Standard forms - Algebraic simplification - digital logic

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gates, properties of XOR gates - universal gates - Multilevel NAND/NOR realizations. Minimization of Switching Functions Map method, Prime implicants, Don't care combinations, Minimal SOP and POS forms, Tabular Method, Prime - Implicant chart, simplification rules. Combinational Logic Design Design using conventional logic gates, Encoder, Decoder, Multiplexer, De-Multiplexer, Modular design IC chips, MUX Realization of switching functions Parity bit generator, Code-converters, Hazards and hazard free realizations. Programmable Logic Devices, Threshold Logic Basic PLD's- ROM, PROM, PLA, PLD Realization of Switching functions using PLD's. Capabilities and limitations of Threshold gate, Synthesis of Threshold functions, Multigate

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I Classification of sequential circuits (Synchronous, Asynchronous, Pulse mode, Level mode with examples)
Basic flop-flops-Triggering and excitation tables. Steps in synchronous sequential circuit design. Design of modulo-N Ring and shift counters, Serial binary adder, sequence detector. Sequential Circuits - II Finite state machine-capabilities and limitations, Mealy and Moore models-minimization of completely specified and incompletely specified sequential machines, Partition techniques and Merger chart methods-concept of minimal cover table. Algorithmic State Machines Salient features of the ASM chart-Simple examples-System design using data path and control subsystems-control implementations-

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