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ADVANCED DIGITAL SYSTEM DESIGN

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Refers to the fundamentals of digital logic based system design.

- 2.01
- i. Basics on Synchronous & Async digital switching design.
 - ii. Design & realisation of error free functional blocks for digital systems

1. SEQUENTIAL CIRCUIT DESIGN

Analysis of Clocked Synchronous Sequential Networks (CSSN) Modeling of CSSN – State Stable Assignment and Reduction – Design of CSSN – Design of Iterative Circuits – ASM Realization. Design of Arithmetic circuits for Fast adder- Array Multiplier

2. ASYNCHRONOUS SEQUENTIAL CIRCUIT DESIGN

Analysis of Asynchronous Sequential Circuit (ASC) – Flow Table Reduction – State Assignment Problem and the Transition Table – Design of ASK Hazards – Essential Hazards – Data Synchronizers – Designing Verilog Mixed Operating Mode Asynchronous Circuits.

3. FAULT DIAGNOSIS AND TESTABILITY ALGORITHMS

Fault Table Method – Path Sensitization Method – Boolean Difference Method – Kohavi Algorithm – Tolerance Techniques – The Compact Algorithm – Practical PLA's – Fault in PLA – Test Generation – Masking Cycle – DFT Schemes – Built-in Self Test.

4. SYNCHRONOUS DESIGN USING PROGRAMMABLE DEVICES

Programming Techniques – Re-programmable Devices Architecture- Function blocks, I/O blocks, Interconnects. Realize combinational, Arithmetic, Sequential Circuit with Programmable Array Logic. Architecture and application of Field Programmable Logic Sequence.

5. NEW GENERATION PROGRAMMABLE LOGIC DEVICES

Feedback Architecture with GAL, EPLD, EPLA, FEEL, PAL, PROM – Realization State machine using PLD – FPGA – Xilinx FPGA – Xilinx 2000 – Xilinx 3000

TOTAL : 48 PERIODS

REFERENCES:

1. Donald G. Givone, "Digital principles and Design", Tata McGraw Hill 2002.
2. Stephen Brown and Zvonko Vranesic, "Fundamentals of Digital Logic with VHDL Design", Tata McGraw Hill, 2002.
3. Mark Dextrinshi, "Digital System Design with VHDL", Pearson Education, 2004
4. Parag K. Lulla, "Digital System design using PLD", BS Publications, 2003
5. John M Yarbrough, "Digital Logic applications and Design", Thomson Learning, 2001
6. Narendranthi Shewas, "Logic Design Theory", Prentice Hall of India, 2001
7. Charles H. Roth Jr., "Fundamentals of Logic design", Thomson Learning, 2004.

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1. Raj Kamal, 'Digital systems-Principles and Design', Pearson Education 2nd ... John M. Yarbrough, 'Digital Logic, Application & Design', Thomson, 2002. 7.. Recommended readings: 1. John M Yarbrough, Digital Logic Applications and Design, Thomson Learning 3. Yarbrough, Digital Logic, Application & Design, Books Digital Logic Applications And Design By John M Yarbrough Pdf 1. digital logic circuits - nus uav - 1 digital logic circuits 1. digital logic 1. Introduction to Switching Theory and Logic Design – Fredriac J. Hill, Gerald R. ... Digital Logic Applications and Design- John M. Yarbrough, Thomson Swtcting Theory and Logic Design - Free download as PDF File (.pdf), Text File (.txt) or ... Digital Design- Morris Mano, PHI, 3d Edition. REFERENCE BOOKS: nt. 1. 2. ... Digital Logic Applications and Design, John M. yarbrough, Thomson.. 1 1 1 C 2.5 Convert the following numbers from decimal to octal and then to ... Digital Design Principles and Practices, Prentice-Hall, New Jersey, 200 Yarbrough. John M., Digital Logic Applications and Design, Vikas Publishing House, Ne\ 1. To design digital circuits based on the required application ... 1. John M Yarbrough : Digital Logic Applications and Design, 2 nd. Edition, Thomson Educaion 1. M. Morris Mano, Michael D. Ciletti, —Digital Design||, Pearson Education/PHI, 3rd ... John M. Yarbrough, —Digital logic applications and design||, Thomson Page 1. eBook Digital Logic: Applications and Design free download. Pdf Download Digital Logic: Applications and Design Full Online, Digital Logic: ... book Pdf Digital Logic: Applications and Design, by John M. Yarbrough Pdf Digital READ Digital Logic: Applications and Designs. 1. READ Digital Logic: Applications and Designs; 2. Book details Author : John M. Yarbrough [Download PDF] Digital Logic: Applications and Designs Best Online by John M. Yarbrough Author : John M. Yarbrough. Pages : 698 pages.. John M. Yarbrough, „Digital Logic, Application & Design“, Thomson, 2002. ... There is no such thing as $\|2\|$ or $\|-1\|$ or $\|1/2\|$ in the Boolean world.. CO 1 Convert a number from one number system to other Number system. ... John M. Yarbrough, “Digital Logic Applications and Design”. Thomson Publications AbeBooks.com: Digital Logic Applications and Design: TABLE OF CONTENTS Chapter 1. Digital Concepts and Number Systems Chapter 2. Boolean Switching Applications And Design John M Yarbrough pdf , Free Digital Logic ... 1 digital logic circuits 1. digital ... which are at the heart of digital computers. digital logic 7 Hours UNIT 5: Sequential Circuits – 1: Basic Bistable Element, Latches, SR Latch, ... “Digital Logic Applications and Design” , John M Yarbrough, Thomson Digital Logic Applications And Design - John M. Yarbrough ... 20181129com/resources/core-java-black-book-nageshwar-rao-pdf-free-downloaddrar.pdf Digital Logic: Applications and Design [John M. Yarbrough] on Amazon.com. ... The author provides a thorough explanation of the design process. ... Hardcover: 1 pages; Publisher: CL Engineering; 1 edition (September 11, 1996); Language: DIGITAL LOGIC offers the right balance of classical and up-to-date treatment of combinational and sequential logic design for a first digital logic Logic Design Notes - Free ebook download as PDF File (.pdf), Text File (.txt) or read ... 1. Digital Logic Applications and Design, John M Yarbrough, Thomson ... 3419e47f14