#### QUESTION PAPER CODE: 11343

## B.E./B.TECH. DEGREE EXAMINATION,

#### NOVEMBER/DECEMBER 2012.

#### Sixth Semester

### Electronics and Communication Engineering

# EC 2354/EC64—VLSI DESIGN

#### (Regulation 2008)

# (Common to PTEC 2354—VLSI Design for B.E. (Part-Time) Fifth Semester-Electronics and Communication Engineering-Regulation 2009)

#### Time: Three hours

#### Maximum: 100 marks

#### Answer ALL questions.

#### PART A— $(10 \times 2 = 20 \text{ marks})$

- Why the tunneling current is higher for NMOS transistors than PMOS transistors with silica gate?
- What is the objective of layout rules?
- Give the effect of supply voltage and temperature variations on the CMOS system performance.
- 4. What are the factors that cause static power dissipation in CMOS circuits?
- 5. State the reasons for the speed advantage of CVSL family.
- Mention the qualities of an ideal sequencing method.
- Distinguish testers and test fixtures.
- 8. What are the stages at which a chip can be tested?
- Write the Verilog module for a 1-bit full adder.
- 10. Give an example for implicit continuous assignment.

#### PART B—(5 $\times$ 16 = 80 marks)

11.(a)(i) Explain the different steps involved in n-well CMOS fabrication process with neat diagrams. (10)

# **Low Power Vlsi Design Question Paper**

**Sebastian Brünink** 

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#### **Table of Contents Low Power Vlsi Design Question Paper**

- 1. Understanding the eBook Low Power Vlsi Design Question Paper
  - The Rise of Digital Reading Low Power Vlsi Design Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Low Power Vlsi Design Question Paper
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Low Power Vlsi Design Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Low Power Vlsi Design Question Paper
  - Personalized Recommendations
  - Low Power Vlsi Design Question Paper User Reviews and Ratings
  - Low Power Vlsi Design Question Paper and Bestseller Lists
- 5. Accessing Low Power Vlsi Design Question Paper Free and Paid eBooks
  - Low Power Vlsi Design Question Paper Public Domain eBooks
  - Low Power Vlsi Design Question Paper eBook Subscription Services
  - Low Power Vlsi Design Question Paper Budget-Friendly Options

- 6. Navigating Low Power Vlsi Design Question Paper eBook Formats
  - o ePub, PDF, MOBI, and More
  - Low Power Vlsi Design Question Paper Compatibility with Devices
  - Low Power Vlsi Design Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Low Power Vlsi Design Question Paper
  - Highlighting and Note-Taking Low Power Vlsi Design Question Paper
  - o Interactive Elements Low Power Vlsi Design Question Paper
- 8. Staying Engaged with Low Power Vlsi Design Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Low Power Vlsi Design Question Paper
- 9. Balancing eBooks and Physical Books Low Power Vlsi Design Question Paper
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Low Power Vlsi Design Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Low Power Vlsi Design Question Paper
  - Setting Reading Goals Low Power Vlsi Design Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Low Power Vlsi Design Question Paper
  - Fact-Checking eBook Content of Low Power Vlsi Design Question Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

• Interactive and Gamified eBooks

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