VLSI DESIGN LAB

Course Code: 20EC1119

L	T	P	C
0	0	3	1.5

Prerequisites: Digital Logic Design, VLSI Design

Course Outcomes: At the end of the course the student will be able to

CO1: Verify the functionality of different digital circuits

CO2: Model and verify combinational circuits using Verilog (L3)

CO3: Model and verify sequential circuits Using Verilog (L3)

CO4: Interpret delay, power and area calculations of digital circuits (L2)

CO5: Simulate and Synthesize different digital circuits

List of Experiments:

To Design and implement

1. 4 to 16 Decoder
2. 8 to 3 Encoder
3. 8:1 Multiplexer
4. 1:8 De-multiplexer
5. 8-bit Comparator
6. SR, JK, D and T Flip-Flops
7. 4-bit Serial in Parallel out and Parallel in Serial out Shift registers
8. MOD-12 Counter
9. 4-bit Parity generator
10. 4-bit ALU.
11. Mealy machine Design.
12. Moore machine Design.
13. 6-bit Binary to BCD converter
14. 4-bit Array Multiplier

Note: Any **TWELVE** of the experiments are to be conducted.

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Lab Manual For Vlsi

DP Hallahan

Lab Manual For Vlsi:

   Designing Digital Electronics David Perkins,1996   Proceedings ,1990   **Future Generation Information Technology** Jung-Hyun Lee,Byeong-Ho Kang,Dominik Ślęzak,2010-11-26 As information technology IT becomes specialized and fragmented it is easy to lose sight that many topics have common threads and because of this advances in one s discipline may transmit to another The presentation of results between different s disciplines encourages this interchange for the advancement of IT as a whole This volume comprises the selection of papers presented at the Second International Mega Conference on Future Generation Information Technology FGIT 2010 composed of the following 11 international conferences Advanced Software Engineering and Its Applications ASEA 2010 Bio Science and Bio Technology BSBT 2010 Control and Automation CA 2010 Disaster Recovery and Business Continuity DRBC 2010 Database Theory and Application DTA 2010 Future Generation Communication and Networking FGCN 2010 Grid and Distributed Computing GDC 2010 Multimedia Computer Graphics and Broadcasting MulGraB 2010 Security Technology SecTech 2010 Signal Processing Image Processing and Pattern Recognition SIP 2010 as well as u and e Service Science and Technology UNESST 2010 In total 1 630 papers were submitted to FGIT 2010 from 30 countries The submitted papers went through a rigorous reviewing process and 395 papers were accepted Of these 395 papers 60 were assigned to this volume In addition this volume contains 7 invited papers and abstracts Of the remaining accepted papers 269 were distributed among 8 volumes of proceedings published by Springer in the CCIS series 66 papers were withdrawn due to technical reasons   Scientific and Technical Aerospace Reports ,1984 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database   With Honors Grace Wen, Success in life takes more than straight A s Melinda is an honors engineering student with a secret she has cheated on every lab assignment since her junior year As graduation day approaches she realizes she can t keep trying to be someone she s not Can she find a way to live her truth This story was previously published in 2012   **IEEE Circuits & Devices** ,2000

   NBS List of Publications United States. National Bureau of Standards,1985   Semiconductor Manufacturing Technology Workshop ,1994   **Proceedings** American Society for Engineering Education. Conference,1994   *CoED.* ,1990   **Documentation Abstracts** ,1985   **Microelectronic Circuits** Adel S. Sedra,Kenneth Carless Smith,1987

   Computer Books and Serials in Print ,1985   *Electronics Engineers' Handbook* Donald G. Fink,Donald Christiansen,1989 Very Good No Highlights or Markup all pages are intact   *Subject Guide to Books in Print* ,2001

   Scientific and Technical Books and Serials in Print ,1989   **International Books in Print** ,1987   **Handbooks and Tables in Science and Technology** Russell Powell,1994-08-15 The bibliography covers physics chemistry engineering mathematics astronomy biology geology agriculture medicine environment energy equations manufacturing materials measurement carcinogens and pesticides   The British National Bibliography Arthur James Wells,2007   **Experiments**

in Logic and Computer Design Albert Y. Teng,William A. Malmgren,1984

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Lab Manual For Vlsi**

In a global inundated with screens and the cacophony of immediate communication, the profound energy and psychological resonance of verbal artistry often diminish in to obscurity, eclipsed by the regular barrage of sound and distractions. However, set within the musical pages of **Lab Manual For Vlsi**, a captivating function of literary elegance that impulses with raw feelings, lies an memorable trip waiting to be embarked upon. Published with a virtuoso wordsmith, that exciting opus instructions viewers on an emotional odyssey, delicately exposing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is key themes, dissect their interesting writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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