R15

Code No: 126VN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year II Semester Examinations, December - 2018 VLSI DESIGN

(Common to ECE, ETM)

Times 3 hours

10

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part of is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 3 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

Lab Write about the Pass tredistate [2]Distinguish between Entrancement and Depletion mode transistor action in N-MOS. Dolb. Write about contacts and vias in layout design. [2]c) Write about the 1.2 jum double most single poly CMOS rules. dis. [3] Mention the different forms of Time delays at gate level circuits. [2] c) D: Explain about Switch logic and its usage [3] Distinguish a synchronous and an asynchronous counters. 23 [2] h) Write a note on Content Addressable Memor [3] What is the need for testing of IC? [2] (i)

PART - B

(50 Marks)

[3]

[5+5]

- 2.a) Explain the CMOS fabrication process in p-well using suitable decreases.
- b) Discuss the effect of threshold voltage on MOSFET current Equations.
- 3.a) Discuss the MOS transistor Characteristics in Depletion and enhancement the des
- b) Write about Alternative forms of pull-up and describe about the NMOS pull-ups [5+5
- Write about the stick diagrams and design a stick diagram for two input N-Mos NAND and NOR gates.

OR

- Distinguish between the Lambda-base rules and Double metal MOS process rules.
- b) Draw the neat layout diagrams for NMOS shift register cell. [5+5]
- Explain the formal estimation of CMOS inverter delay rise-time estimation and Falltime estimation.
- b) Write a note on the Wiring capacitance in detail. [5+5]
 OR
- 7.a) Write about the different Alternate gate circuits in detail.

What are the different chip-level Test Techniques?

b) Discuss about the Choice of layers for the gate level design. [5+5]

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Yadav, Sudesh, Yadav, Satya Prakash, Raj, Pethuru, Tiwari, Prabhakar, Albuquerque, Victor Hugo C. de

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AI Smart-Enabled Architecture and Infrastructure for Higher Education van Wyk, Micheal M., 2025-07-03 Artificial intelligence AI transforms the landscape of higher education creating smart enabled architecture and infrastructure that redefines how campuses operate and evolve By integrating AI technologies into the physical and digital frameworks of universities institutions can create more adaptive efficient and student centered environments From intelligent energy management systems and predictive maintenance in campus buildings to AI powered learning platforms and data driven administrative tools it enhances both operational performance and academic delivery As higher education faces growing demands for innovation sustainability and personalized experiences AI enabled architecture and infrastructure may shape future campuses AI Smart Enabled Architecture and Infrastructure for Higher Education explores the integration of intelligent technologies into higher education organizations It explores how AI and machine learning can provide tools to reduce digital divides and address issues of educational disparity through inclusion and equity This book covers topics such as education infrastructure sustainability and digital technology and is a useful resource for computer engineers business owners educators academicians researchers and scientists **AI-Driven Marketing Research and Data Analytics** Masengu, Reason, Chiwaridzo, Option Takunda, Dube, Mercy, Ruzive, Benson, 2024-04-22 The surge in technological advancements coupled with the exponential growth of data has left marketers grappling with the need for a paradigm shift The once established methods of consumer engagement are now overshadowed by the complexities of the digital age demanding a profound understanding of artificial intelligence AI and data analytics. The gap between academic knowledge and practical applications in the field of marketing has widened leaving industry professionals educators and students seeking a comprehensive resource to navigate the intricacies of this transformative era AI Driven Marketing Research and Data Analytics is a groundbreaking book that serves as a beacon for marketers educators and industry leaders alike With a keen focus on the symbiotic relationship between AI data analytics and marketing research this book bridges the gap between theory and practice It not only explores the historical evolution of marketing but also provides an innovative examination of how AI and data analytics are reshaping the landscape Through real time case studies ethical considerations and in depth insights the book offers a holistic solution to the challenges faced by marketing professionals in the digital age

Harnessing AI and Digital Twin Technologies in Businesses Ponnusamy, Sivaram, Assaf, Mansour, Antari, Jilali, Singh, Satyanand, Kalyanaraman, Swaminathan, 2024-07-26 The intersection of artificial intelligence AI and digital twin technology presents a problem and an unparalleled opportunity for transformation Businesses grapple with the need for operational excellence innovation and a competitive edge all while navigating the intricate web of data analytics decision making and real time monitoring In response to these challenges Harnessing AI and Digital Twin Technologies in Businesses emerges as an example of insight and guidance offering a comprehensive exploration of the complementary connection between AI and

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of earth observations leading to an unprecedented leap in accuracy and efficiency 18th International Conference on **VLSI Design** International Conference on VLSI Design, 2005 Handbook of Research on Network-Enabled IoT Applications for Smart City Services Reddy, K. Hemant Kumar, Roy, Diptendu Sinha, Mishra, Tapas Kumar, Hussain, Mir Wajahat, 2023-09-26 The rapid growth of IoT and its applications in smart cities pose significant challenges for academic scholars The increasing number of interconnected devices and the massive amounts of data they generate strain traditional networks leading to inefficiencies and security vulnerabilities Additionally the centralized control plane in Software Defined Networks SDN presents a single point of failure hindering network performance while IoT devices themselves are susceptible to attacks compromising user data and privacy To address these pressing issues Network Enabled IoT Applications for Smart City Services offers a compelling solution Edited by Dr K Hemant Kumar Reddy Dr Diptendu SinhaRoy and Tapas Mishra this book advocates leveraging SDN to handle high frequency data streams effectively It also proposes the integration of blockchain technology to enhance security and reliability in IoT applications offering a roadmap for scholars to improve network efficiency security and reliability in IoT and smart city domains With their extensive expertise the authors provide academic scholars with a comprehensive and innovative resource that inspires further research and development in this evolving field enabling them to make significant contributions to the advancement of IoT and smart city technologies

Data Assimilation and Control: Theory and Applications in Life Sciences Axel Hutt, Wilhelm Stannat, Roland Potthast, 2019-08-16 The understanding of complex systems is a key element to predict and control the system's dynamics To gain deeper insights into the underlying actions of complex systems today more and more data of diverse types are analyzed that mirror the systems dynamics whereas system models are still hard to derive Data assimilation merges both data and model to an optimal description of complex systems dynamics The present eBook brings together both recent theoretical work in data assimilation and control and demonstrates applications in diverse research fields 13th International Conference on Biomedical Engineering Chwee Teck Lim, James Goh Cho Hong, 2009-03-15 th On behalf of the organizing committee of the 13 International Conference on Biomedical Engineering I extend our w mest welcome to you This series of conference began in 1983 and is jointly organized by the YLL School of Medicine and Faculty of Engineering of the National University of Singapore and the Biomedical Engineering Society Singapore First of all I want to thank Mr Lim Chuan Poh Chairman A STAR who kindly agreed to be our Guest of Honour to give the the Opening Address amidst his busy schedule I am delighted to report that the 13 ICBME has more than 600 participants from 40 countries We have received very high quality papers and inevitably we had to turndown some papers We have invited very prominent speakers and each one is an authority in their field of expertise I am grateful to each one of them for setting aside their valuable time to participate in this conference For the first time the Biomedical Engineering Society USA will be sponsoring two symposia ie Drug Delivery S tems and Systems Biology and Computational Bioengineering I am thankful to Prof Tom Skalak for his leadership in this

initiative I would also like to acknowledge the contribution of Prof Takami Yamaguchi for organizing the NUS Tohoku s Global COE workshop within this conference Thanks also to Prof Fritz Bodem for organizing the symposium Space Flight Bioengineering This year's conference proceedings will be published by Springer as an IFMBE Proceedings Series EMBC 2004 IEEE Engineering in Medicine and Biology Society. Annual Conference, IEEE Engineering in Medicine and Biology Society, 2004 IEEE Catalog Number 04CH37558 Tp verso **Indian Science Abstracts** ,2011 Proceedings, IEEE International Conference on Computer Design, 1983 IETE Journal of Research ,2000 Proceedings of the ... Midwest Symposium on Circuits and Systems ,2002 American Doctoral Dissertations, 1995 Physics Briefs ,1990 Proceedings IECON '91: Signal processing and system control. Intelligent sensors and instrumentation ,1991 ΑI Proceedings of SLIP '07,2007 Magazine ,1992

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