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Question Paper Code : 40989

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2024

Fifth Semester

Electronics and Communication Engineering

EC 3552 – VLSI AND CHIP DESIGN

(Common to: Electronics and Telecommunication Engineering)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. How NMOS and PMOS act as a switch?
2. What is the body effect of MOS transistor?
3. Draw the stick diagram for two input NOR gate.
4. What is the significance of propagation delay?
5. Differentiate latches and flipflops.
6. What are the basic timing classifications of digital systems?
7. List the interconnect parameters in chip design.
8. Write the logic equation for 4-bit comparators.
9. Sketch the ASIC design flow?
10. Differentiate embedded cores and SOC's.

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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 digital twin technology In a world where the convergence of these powerful tools transforms business intelligence enabling initiative taking decision making and dynamic simulations This book serves as a solution for decision makers technologists and researchers seeking to not only understand but harness the potential of AI powered digital twins to enhance productivity creativity and judgment in their operations

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

LATIN 2018: Theoretical Informatics Michael A. Bender,Martín Farach-Colton,Miguel A. Mosteiro,2018-04-05 This book constitutes the proceedings of the 13th Latin American Symposium on Theoretical Informatics LATIN 2018 held in Buenos Aires Argentina in April 2018 The 63 papers presented in this volume were carefully reviewed and selected from 161 submissions The Symposium is devoted to different areas in theoretical computer science including but not limited to algorithms approximation online randomized algorithmic game theory etc analytic combinatorics and analysis of algorithms automata theory and formal languages coding theory and data compression combinatorial algorithms combinatorial optimization combinatorics and graph theory complexity theory computational algebra computational biology computational geometry computational number theory cryptology databases and information retrieval data structures formal methods and security Internet and the web parallel and distributed computing pattern matching programming language theory and random structures

Proceedings ,2004 **Forthcoming Books** Rose Arny,1994-02

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