JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year II Semester Examinations, May - 2019
STRUCTURED DIGITAL SYSTEM DESIGN
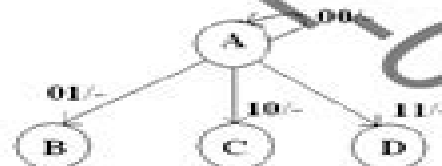(Electronics and Instrumentation Engineering)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
- - -

1.a) Reduce the following Boolean expressions:
i) $F = AB + C + AD(B + C') + CD$ ii) $F = AB + CD'B + A'CD'$

  b) Mention the operation and explain the design of a Carry Look-ahead adder.   [8+7]

2.a) Describe the propagation delay through an inverter circuit.
  b) Distinguish between open collector and tri state bus system by considering Loading and speeds.   [7+8]

3.a) Describe the design of D-Latch Flip-flop and analyze its propagation Delay.
  b) Write the different types of Clocks and Oscillators used for digital systems.   [8+7]

4.a) Discuss the steps involved in the State reduction and minimization.
  b) Derive next state maps for the state assignments for state diagram shown in figure. [7+8]

5.a) Implement a modulo ring counter which is initialized using set and reset operations.
  b) Design and implement a 4-bit parallel-in serial-out shift register and explain its operations.   [8+7]

6.a) Mention about the Timing-Frequency considerations and controlling systems.
  b) Write about the functional partition and detailed flow diagram development.   [7+8]

7.   Explain the state assignment and write the application of the next state decoder and next state decoder maps with an illustration.   [15]

8.a) Explain the MSI decoder in System Controllers and its applications.
  b) Discuss the various Applications of PLA's and FPLA's.   [8+7]

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[Digital Design Question Papers](#)

Jan P. Allebach

Digital Design Question Papers:

Digital Design and Manufacturing Technology Guo Zhong Chai,Cong Da Lu,Dong Hui Wen,2010-03-09 Selected peer reviewed papers from the conference on Digital Design and Manufacturing 26 28 April 2010 Hangzhou City Zhejiang Province **Digital Design Studios** Thomas Seebohm,Skip Van Wyk,1998 **Instructional Design: Creating an interactive digital product for education** Julia Meier,2020-12-08 Seminar paper from the year 2020 in the subject Pedagogy Media Pedagogy grade 1 7 University of Hagen course Modul 3 Entwicklung und Evaluation von digitalen Medien language English abstract This paper has the aim to address the following research question How does the interactive digital media product meet the quality criteria outlined in LORI to support learning In order to answer these research question first the proto type was developed and implemented After that evaluation and analysis took place In more detail the structure of this paper is based on the ADDIE model In chapter 2 the ADDIE model is described Chapter 3 analyses the topic the target group and learning goals Whereas chapter 4 focuses on the design and development That means the focus is on the design different theories and models and how to connect them with the results from chapter 3 The research question and the hypothesis are also introduced in chapter 4 A few important explanatory notes about the implementation are in Chapter 5 In order to answer the research question the collected data and methods are described and analysed in Chapter 6 This paper will close with a conclusion **Digital Design** ,1985 *Digital Libraries* ,2003 **Commodity, Credit, CBDC? How the growing significance of Central Bank Digital Currencies may alter the credit hierarchy of modern banking systems** ,2022-01-17 Bachelor Thesis from the year 2021 in the subject Economics Monetary theory and policy grade 1 0 University Witten Herdecke language English abstract In this paper I will dissect the prospective impact of retail central bank digital currencies with reference to the hierarchy of credit in modern monetary economies If central banks decide to issue digital currencies in a similar manner to their issuance of cash public money will become more widely accessible and potentially threaten the business model of commercial banking Thus considerations about financial stability need to be critically assessed to ensure that central bank digital currencies can become a positive addition to monetary environments Being a literature review this paper will thoroughly revise existing accounts on a variety of challenges and chances regarding a transformation of current structures before discussing these findings This approach will demonstrate that central bank digital currencies provide a benefit to society and strengthen the monetary sovereignty of the central bank without jeopardizing financial stability *Paper to Digital* Ziming Liu,2008-10-30 Is the paperless society really possible What is the future of paper in the Digital Age Based on extensive statistics and six separate surveys Paper to Digital explores the evolution and changing characteristics of documents in the Information Age Resultant implications are studied through the examination of emerging issues in the digital environment This timely book represents a useful and scholarly exploration of a major concern in our society **Digital Design** John F. Wakerly,1990 This popular volume provides a solid foundation in

the elements of basic digital electronics and switching theory that are used in most practical digital design today and builds on that theory with discussions of real world digital components design methodologies and tools Covers a full range of topics number systems and codes digital circuits combinational logic design principles and practices combinational logic design with PLDs sequential logic design principles and practices sequential logic design with PLDs memory and additional real world topics e g computer aided engineering tools design for testability estimating digital system reliability and transmission lines reflections and termination This edition introduces PLDs as soon as possible emphasizes CMOS logic families and introduces digital circuits in a strongly technology independent fashion covers the latest Generic Array Logic GAL devices offers expanded coverage of ROM and RAM system level design and provides additional design examples For those needing a solid introduction or review of the principles and practices of modern digital design Previously announced in Oct 1992 PTR Catalogue   Paper ,1989   *Proceedings of the ... ASME Design Engineering Technical Conferences* ,2006   *Digital Signal Processing Applications* ,1998   *Handbook of Research on Digital Libraries* Yin-Leng Theng,2009 This book is an in depth collection aimed at developers and scholars of research articles from the expanding field of digital libraries Provided by publisher   *Fabrication Education Summit White Papers* Aron Temkin,2004   Selected Papers on Digital Halftoning Jan P. Allebach,1999 This text presents 76 papers on halftone imaging Subjects covered include basic principles point processes neighbourhood processes iterative methods printer models and colour   Advanced Theory of the Logical Design of Digital Computers ,1959   **The Essence of Digital Design** Barry Wilkinson,1998 Wilkinson provides a concise introduction to all the fundamental aspects of digital logic design covering state diagrams including those with transitional expressions and programmable logic devices He also looks at basic fault testing   *Design Issues* ,2018 The first American academic journal to examine design history theory and criticism Design Issues provokes inquiry into the cultural and intellectual issues surrounding design Regular features include theoretical and critical articles by professional and scholarly contributors extensive book reviews illustrations and a section for reader response Special issues concentrate on particular themes such as artificial intelligence product seminars design in Asia and design education   *Complete Digital Design : A Comprehensive Guide to Digital Electronics and Computer System Architecture* Mark Balch,2003-06-20 This is a readable hands on self tutorial through basic digital electronic design methods The format and content allows readers faced with a design problem to understand its unique requirements and then research and evaluate the components and technologies required to solve it Begins with basic design elements and expands into full systems Covers digital analog and full system designs Features real world implementation of complete digital systems   **ACADIA ... Proceedings** Association for Computer-Aided Design in Architecture. Conference,2000   **A Collection of Technical Papers** American Institute of Aeronautics and Astronautics,1977

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