Digital Electronics

CHARACTERISTICS OF LOGIC FAMILY

- t_{pd}
- Power
- Figure of Merit
- Fanout
- Noise Margin
- Wired Logic

PROPAGATION DELAY (t_{pd})

Measured in NANO SECONDS (nS)

OFF ON TO OFF time is more due to STORAGE TIME.

In t_{pd} ON to OFF ($t_{PLH} > t_{PHL}$) due to STORAGE TIME or Saturation delay.

$$t_{pd} = \frac{t_{PHL} + t_{PLH}}{2}$$

ECL logic family is the fastest among all.

In reality neither changes (transitions) from 0 to 1 or vice versa doesn't happen instantaneously. Sometimes it spent from transisting into 0 to 1 one vice versa.

POWER DISSIPATION

Power dissipation is Power dissipated by 1 logic GATE.

Measured in milliwatts (mw)

Mathematically

$$P_{diss} = V_{CC} \times I_{C \, avg}$$

$$I_{C avg} = \frac{I_{C (ON)} + I_{C(OFF)}}{2}$$

$$I_{C(ON)} = I_C (SAT)$$

$$I_C (OFF) = Cut \; off \; current$$

CMOS logic family has lowest Power dissipation.

$$\frac{V_{CC} - V_{CE(SAT)}}{R_C} = I_C(sat)$$

$$I_C(sat) = \frac{V_{CC}}{R_C}$$

FIGURE OF MERIT

Mathematically
$$F \cdot O \cdot M = t_{pd} \times P_{diss}$$
$$= ns \times mw$$
$$= PJ \; (Pico \; joule)$$

$$0.1 \; PJ \leq F \cdot O \cdot M \leq 0.7 \; PJ \quad ECL$$

Best F.O.M. is for I^2L logic family among all logic families. I^2L has F.O.M. in range of 0.1 PJ to 0.7 PJ.

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Jin-Ying Zhang

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  Enzyme-Based Computing Systems Evgeny Katz,2019-06-10 This systematic and comprehensive overview of enzyme based biocomputing is an excellent resource for scientists and engineers working on the design study and applications of enzyme logic systems   Social Computing and Social Media Adela Coman,Simona Vasilache,2023-07-08 This two volume set LNCS 14025 and 14026 constitutes the refereed proceedings of the 15th International Conference on Social Computing and Social Media SCSM 2023 held as part of the 25th International Conference HCI International 2023 held in Copenhagen Denmark in July 2023 The total of 1578 papers and 396 posters included in the HCII 2023 proceedings was carefully reviewed and selected from 7472 submissions The SCSM 2023 conference offers a wide range of topics related to the design development assessment use and impact of social media   Electronic Visualisation in Arts and Culture Jonathan P. Bowen,Suzanne Keene,Kia Ng,2013-09-07 Presenting the latest technological developments in arts and culture this volume demonstrates the advantages of a union between art and science Electronic Visualisation in Arts and Culture is presented in five parts Imaging and Culture New Art Practice Seeing Motion Interaction and Interfaces Visualising Heritage Electronic Visualisation in Arts and Culture explores a variety of new theory and technologies including devices and techniques for motion capture for music and performance advanced photographic techniques computer generated images derived from different sources game engine software airflow to capture the motions of bird flight and low altitude imagery from airborne devices The international authors of this book are practising experts from universities art practices and organisations research centres and independent research They describe electronic visualisation used for such diverse aspects of culture as airborne imagery computer generated art based on the autoimmune system motion capture for music and for sign language the visualisation of time and the long term preservation of these materials Selected from the EVA London conferences from 2009 2012 held in association with the Computer Arts Society of the British Computer Society the authors have reviewed extended and fully updated their work for this state of the art volume   **Communication and Technology** Lorenzo Cantoni,James A. Danowski,2015-08-31 The primary goal of the Communication and Technology volume 5th within the series Handbooks of Communication Science is to provide the reader with a comprehensive compilation of key scholarly literature identifying theoretical issues emerging concepts current research specialized methods and directions for future investigations The internet and web have become the backbone of many new communication technologies often transforming older communication media through digitization to make them compatible with the net Accordingly this volume focuses on internet web technologies The essays cover various infrastructure technologies ranging from different kinds of hard wired elements to a range of wireless technologies such as WiFi mobile telephony and satellite technologies Audio visual communication is discussed with reference to large format motion pictures medium sized television and video formats and the small screen mobile smartphone There is also coverage of audio only media such as radio music and voice telephony text

media in such venues as online newspapers blogs discussion forums and mobile texting and multi media technologies such as games and virtual reality   Information Hiding Stefan Katzenbeisser,Fabien Petitcolas,2016-01-01 A successor to the popular Artech House title Information Hiding Techniques for Steganography and Digital Watermarking this comprehensive and up to date new resource gives the reader a thorough review of steganography digital watermarking and media fingerprinting with possible applications to modern communication and a survey of methods used to hide information in modern media This book explores Steganography as a means by which two or more parties may communicate using invisible or subliminal communication Steganalysis is described as methods which can be used to break steganographic communication This comprehensive resource also includes an introduction to watermarking and its methods a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use This book demonstrates a working knowledge of watermarking s pros and cons and the legal implications of watermarking and copyright issues on the Internet   **Research on E-Learning and ICT in Education** Thrasyvoulos Tsiatsos,Stavros Demetriadis,Anastasios Mikropoulos,Vasileios Dagdilelis,2021-03-09 This volume includes contributions based on selected full papers presented at the 11th Pan Hellenic and International Conference ICT in Education held in Greece in 2018 The volume includes papers covering technical pedagogical organizational instructional as well as policy aspects of ICT in Education and e Learning Special emphasis is given to applied research relevant to the educational practice guided by the educational realities in schools colleges universities and informal learning organizations This volume encompasses current trends perspectives and approaches determining e Learning and ICT integration in practice including learning and teaching curriculum and instructional design learning media and environments teacher education and professional development It is based on research work originally presented at the conference but the call for chapters was open and disseminated to the international community attracting also international contributions   **ECEG2013- 13th European Conference on eGovernment** Walter Castelnovo,Elena Ferrari,2013-06-13 These proceedings represent the work of authors at the 13th European Conference on e Government ECEG 2013 The Conference this year is hosted by the Iuniversity of Insubria in Como Italy The Conference Chair is Professor Walter Castelnovo and the Programme Chair is Professor Elena Ferrari both are fro the Department of Theoretical and Applied Sciences at the University of Insubria The opening keynote address is given by Dr Gianluca Misuraca from the European Commission Joint Research Centre Institute for Prospective Technological Studies Seville Spain and Gianluca is addressing the topic eGovernment Past Present Future A policy research perspective for renewing governance in the digital age The second day of the conference is opened by Dr Antoinio Cordella from the London School of Economics London UK who will talk about Public value creation the new challenge for e government policies ECEG brings together researchers Government officials and practitioners in the area of e Government from around the world Participants are able to share their research findings and explore the latest developments

and trends in the field which can then be disseminated to the wider community With an initial submission of 153 abstracts after the double blind peer review process there are papers published in these Conference Proceedings from 40 countries including Australia Austria Belgium Brazil Canada China Costa Rica Croatia Denmark Eygpt Germany Greece India Iran Iraq Ireland Italy Latvia Lithuania Luxembourg Malaysia Netherlands New Zealand Norway Pakistan Poland Romania Russia Saudi Arabia Serbia Slovenia South Africa Spain Sweden Switzerland Taiwan Thailand Turkey UK and USA This will ensure a very interesting two days **Aspects of Personal Privacy in Communications - Problems, Technology and Solutions** Geir M. Koien,Vladimir a. Oleshchuk,2025-01-13 The modern society is rapidly becoming a fully digital society This has many benefits but unfortunately it also means that personal privacy is threatened The threat does not so much come from a 1984 style Big Brother but rather from a set of smaller big brothers The small big brothers are companies that we interact with they are public services and institutions Many of these little big brothers are indeed also being invited to our private data by ourselves Privacy as a subject can be problematic At the extreme it is personal freedom against safety and security We shall not take a political stand on personal privacy and what level of personal freedom and privacy is the correct one Aspects of Personal Privacy in Communications is mostly about understanding what privacy is and some of the technologies may help us to regain a bit of privacy We discuss what privacy is about what the different aspects of privacy may be and why privacy needs to be there by default There are boundaries between personal privacy and societal requirements and inevitably society will set limits to our privacy Lawful Interception etc There are technologies that are specifically designed to help us regain some digital privacy These are commonly known as Privacy Enhancing Technologies PETs We investigate some these PETs including MIX networks Onion Routing and various privacy preserving methods Other aspects include identity and location privacy in cellular systems privacy in RFID Internet of Things IoT and sensor networks amongst others Some aspects of cloud systems are also covered *Library of Congress Catalogs* Library of Congress,1981 Real-World Electronic Voting Feng Hao,Peter Y. A. Ryan,2016-11-30 Real World Electronic Voting Design Analysis and Deployment captures all major developments in electronic voting since 2003 in a real world setting It covers three broad categories e voting protocols attacks reported on e voting and new developments on the use of e voting This book explores recent innovations in both poll site and remote voting systems and their application throughout the world The requirements of elections are analysed the available tools and technologies are described and a variety of modern systems are presented in detail together with discussions of deployments This is an invaluable resource for election professionals researchers and policy makers alike Key Features Reviews both technical and social aspects of e voting Covers e voting protocols attacks reported on e voting and new developments on the use of e voting Designed for government election practitioners and policy makers who want to understand the threats and opportunities in e voting and assess its suitability for future elections *Standard Handbook for Electrical Engineers, Seventeenth Edition* Surya Santoso,H. Wayne Beaty,2017-11-24 Up to date coverage of every facet of

electric power in a single volume This fully revised industry standard resource offers practical details on every aspect of electric power engineering The book contains in depth discussions from more than 100 internationally recognized experts Generation transmission distribution operation system protection and switchgear are thoroughly explained Standard Handbook for Electrical Engineers Seventeenth Edition features brand new sections on measurement and instrumentation interconnected power grids smart grids and microgrids wind power solar and photovoltaic power generation electric machines and transformers power system analysis operations stability and protection and the electricity market Coverage includes Units symbols constants definitions and conversion factors Measurement and instrumentation Properties of materials Interconnected power grids AC and DC power transmission Power distribution Smart grids and microgrids Wind power generation Solar power generation and energy storage Substations and switch gear Power transformers generators motors and drives Power electronics Power system analysis operations stability and protection Electricity markets Power quality and reliability Lightning and overvoltage protection Computer applications in the electric power industry Standards in electrotechnology telecommunications and IT   Nanoelectronic Mixed-Signal System Design Saraju Mohanty,2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind nanoelectronics system design Written by the director of the NanoSystem Design Laboratory at the University of North Texas this comprehensive guide provides a large scale picture of the design and manufacturing aspects of nanoelectronic based systems It features dual coverage of mixed signal circuit and system design rather than just digital or analog only Key topics such as process variations power dissipation and security aspects of electronic system design are discussed Top down analysis of all stages from design to manufacturing Coverage of current and developing nanoelectronic technologies not just nano CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability   **Utah Code Annotated 1953** Utah,1953   **Indian Trade Journal** ,2012-02-05

   Jane's Fighting Ships 2008-2009 Stephen Saunders,2008 Your essential reference to the changing capabilities of modern navies and coast guards their ships and maritime aircraft in service and under construction   **Universities Handbook** ,2014   **Survey Review** ,2012   **The Publishers Weekly** ,1970   **Radiography PREP (Program Review and Examination Preparation), Sixth Edition** D. A. Saia,2011-01-28 Ace the ARRT certification exam with the field s most trusted review Maximize your study time and your grade by focusing on the most important and frequently tested topics 4 STAR DOODY S REVIEW This update is once again a highlight in the review book section for preparing for the registry exam in radiography Using a compilation of noteworthy sources the author once again provides students with a complete and

valuable guide for registry exam review This is a must have book for any future radiographer Doody s Review Service The entire radiography curriculum summarized in a concise readable narrative makes it easy to understand and memorize key concepts 860 registry style questions including a 200 question practice test prepare you for the exam Answers with detailed explanations and references to major textbooks More than 400 illustrations and clinical images Written by an experienced educator and radiography program director who knows exactly what it takes to pass Essential for certification or recertification An author with 35 years of teaching experience provides everything you need to excel on the exam coursework Summary boxes provide a convenient overview of must know information The inside covers feature important formulae radiation protection facts conversion factors body surface landmarks digital imaging facts acronyms and abbreviations radiation quality factors and minimum filtration requirements Coverage of the latest developments including digital and electronic imaging A complete 200 question practice exam 440 chapter ending questions   Maxcy-Rosenau-Last Public Health and Preventive Medicine: Sixteenth Edition Matthew L. Boulton,Robert H. Wallace,2021-06-05 Now in full color the 1 text spanning the fields of public health and preventive medicine brings you fully up to date on the issues and topics you need to know A Doody s Core Title for 2024 2023 Maxcy Rosenau Last Public Health and Preventive Medicine has been updated and revised for the first time in more than a decade This highly anticipated and extensive edition provides the most current information and insights available on evidence based public health and preventive medicine from basic methodologies of public health to principles of epidemiology and infection control to environmental toxicology to global health The most comprehensive resource of its kind Maxcy Rosenau Last Public Health and Preventive Medicine is the clear choice for anyone seeking a career in public health Features Edited and written by a who s who of global experts 384 photos and illustrations New full color format and improved artwork Significantly expanded coverage of diseases and preventive methods common in international markets Greater use of tables and summary lists for easier reading and retention

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Table of Contents Digital Electronics Lecture Notes 2011 2012

1. Understanding the eBook Digital Electronics Lecture Notes 2011 2012
    - The Rise of Digital Reading Digital Electronics Lecture Notes 2011 2012
    - Advantages of eBooks Over Traditional Books
2. Identifying Digital Electronics Lecture Notes 2011 2012
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Digital Electronics Lecture Notes 2011 2012
    - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Electronics Lecture Notes 2011 2012
    - Personalized Recommendations
    - Digital Electronics Lecture Notes 2011 2012 User Reviews and Ratings
    - Digital Electronics Lecture Notes 2011 2012 and Bestseller Lists

5. Accessing Digital Electronics Lecture Notes 2011 2012 Free and Paid eBooks
    - Digital Electronics Lecture Notes 2011 2012 Public Domain eBooks
    - Digital Electronics Lecture Notes 2011 2012 eBook Subscription Services
    - Digital Electronics Lecture Notes 2011 2012 Budget-Friendly Options
6. Navigating Digital Electronics Lecture Notes 2011 2012 eBook Formats
    - ePub, PDF, MOBI, and More
    - Digital Electronics Lecture Notes 2011 2012 Compatibility with Devices
    - Digital Electronics Lecture Notes 2011 2012 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Digital Electronics Lecture Notes 2011 2012
    - Highlighting and Note-Taking Digital Electronics Lecture Notes 2011 2012
    - Interactive Elements Digital Electronics Lecture Notes 2011 2012
8. Staying Engaged with Digital Electronics Lecture Notes 2011 2012
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Digital Electronics Lecture Notes 2011 2012
9. Balancing eBooks and Physical Books Digital Electronics Lecture Notes 2011 2012
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Digital Electronics Lecture Notes 2011 2012
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Digital Electronics Lecture Notes 2011 2012
    - Setting Reading Goals Digital Electronics Lecture Notes 2011 2012
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Digital Electronics Lecture Notes 2011 2012
    - Fact-Checking eBook Content of Digital Electronics Lecture Notes 2011 2012
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

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