

# Digital Electronics

## CHARACTERISTICS OF LOGIC FAMILY



### PROPAGATION DELAY (t<sub>pd</sub>)

Measured in nano seconds (ns)

Time taken for signal to change from ON to OFF. Time is more due to storage time.

In CMOS ON to OFF ( $t_{fall} > t_{rise}$ ) due to storage time or calculation delay.



Due to the propagation delay in the gates the output response is not exactly identical to the input time when the V<sub>CC</sub> is applied.



$$t_{pd} = \frac{t_{rise} + t_{fall}}{2}$$

In reality, sudden changes (transitions from 0 to 1 or vice versa) doesn't happen instantaneously. Sometimes it spent some time (rising and falling) like vice versa.

All logic family is the fastest among all.

### POWER DISSIPATION

Power dissipation is power dissipated by a logic gate.

Measured in milliwatts (mW)

Mathematically

$$P_{diss} = V_{CC} \times I_{CC}$$

$$I_{CC} = \frac{I_C (out) + I_{CC}(avg)}{2}$$

$I_{CC}(avg) = I_C (out)$

$I_C (out) =$  Out off current

CMOS logic family has lowest power dissipation.

Ideally should be zero, but practically low current.



$$I_{CC}(avg) = \frac{V_{CC} - V_{CE}(sat)}{R_C} = \frac{I_C (out)}{2}$$

### FIGURE OF MERIT

Mathematically

$$F.O.M = t_{pd} \times P_{diss}$$

$$= ns \times mW$$

$$= pJ \text{ (Picjoules)}$$

$$CMOS = 0.01 pJ \text{ to } 0.1 pJ$$

Best F.O.M is for CMOS logic family among all logic families. CMOS has F.O.M in range of 0.1 pJ to 0.7 pJ.

# Digital Electronics Lecture Notes 2011 2012

**Adela Coman, Simona Vasilache**



## **Digital Electronics Lecture Notes 2011 2012:**

**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

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### **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

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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  
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