

Digital Electronics

CHARACTERISTICS OF LOGIC FAMILY



PROPAGATION DELAY (t_{pd})

Measured in nano seconds (ns)

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

Time taken for signal to change from OFF to ON (t_{fall} > t_{rise}) due to storage time or saturation delay.



Due to the propagation delay in the gates, the output changes are not exactly identical to the input. Some time taken for the signal to be 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 in between (0 and 1) state.

All logic family is the fastest among all.

POWER DISSIPATION

Power dissipation is power dissipated by a logic gate.

Measured in milliwatts (mW)

Mathematically

$$P_{diss} = V_{cc} \times I_{c(avg)}$$

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

I_{c(OFF)} = I_{c(LEAK)}

I_{c(ON)} = (cut off current)

CMOS logic family has lowest power dissipation.

I_{c(ON)} should be zero, but practically some current.



$$V_{cc} - V_{ce(sat)} = I_{c(sat)} R_c$$

$$I_{c(sat)} \approx \frac{V_{cc}}{R_c}$$

FIGURE OF MERIT

Mathematically

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

$$= ns \times mW$$

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

$$CMOS \approx 0.1 pJ \text{ (Picosecond)}$$

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.

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Matthew L. Boulton, Robert H. Wallace



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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

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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
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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