



# High Speed Serdes Devices and Applications

David R. Stauffer  
Jeanne Trinko Mechler  
Michael Sorna  
Kent Dramstad

Clarence R. Ogilvie  
Aman Mohammad  
James Rockrohr

 Springer

# High Speed Serdes Devices And Applications

**H Kauffman**



## **High Speed Serdes Devices And Applications:**

**High Speed Serdes Devices and Applications** David Robert Stauffer, Jeanne Trinko Mechler, Michael A. Sorna, Kent Dramstad, Clarence Rosser Ogilvie, Amanullah Mohammad, James Donald Rockrohr, 2008-12-19 The simplest method of transferring data through the inputs or outputs of a silicon chip is to directly connect each bit of the datapath from one chip to the next chip Once upon a time this was an acceptable approach However one aspect and perhaps the only aspect of chip design which has not changed during the career of the authors is Moore s Law which has dictated substantial increases in the number of circuits that can be manufactured on a chip The pin densities of chip packaging technologies have not increased at the same pace as has silicon density and this has led to a prevalence of High Speed Serdes HSS devices as an inherent part of almost any chip design HSS devices are the dominant form of input output for many if not most high integration chips moving serial data between chips at speeds up to 10 Gbps and beyond Chip designers with a background in digital logic design tend to view HSS devices as simply complex digital input output cells This view ignores the complexity associated with serially moving billions of bits of data per second At these data rates the assumptions associated with digital signals break down and analog factors demand consideration The chip designer who oversimplifies the problem does so at his or her own peril *High Speed Serdes Devices and Applications* David Robert Stauffer, Jeanne Trinko Mechler, Michael A. Sorna, Kent Dramstad, Clarence Rosser Ogilvie, Amanullah Mohammad, James Donald Rockrohr, 2008-11-01 The simplest method of transferring data through the inputs or outputs of a silicon chip is to directly connect each bit of the datapath from one chip to the next chip Once upon a time this was an acceptable approach However one aspect and perhaps the only aspect of chip design which has not changed during the career of the authors is Moore s Law which has dictated substantial increases in the number of circuits that can be manufactured on a chip The pin densities of chip packaging technologies have not increased at the same pace as has silicon density and this has led to a prevalence of High Speed Serdes HSS devices as an inherent part of almost any chip design HSS devices are the dominant form of input output for many if not most high integration chips moving serial data between chips at speeds up to 10 Gbps and beyond Chip designers with a background in digital logic design tend to view HSS devices as simply complex digital input output cells This view ignores the complexity associated with serially moving billions of bits of data per second At these data rates the assumptions associated with digital signals break down and analog factors demand consideration The chip designer who oversimplifies the problem does so at his or her own peril *Engineering Applications of Neural Networks* Lazaros Iliadis, Ilias Maglogiannis, Antonios Papaleonidas, Elias Pimenidis, Chrisina Jayne, 2024-06-21 This book constitutes the refereed proceedings of the 25th International Conference on Engineering Applications of Neural Networks EANN 2024 held in Corfu Greece during June 27 30 2024 The 41 full and 2 short papers included in this book were carefully reviewed and selected from 85 submissions They deal with reinforcement natural language biomedical applications classificaiton deep learning convolucional neural networks

**VLSI Design and Test** Brajesh Kumar Kaushik, Sudeb Dasgupta, Virendra Singh, 2017-12-21 This book constitutes the refereed proceedings of the 21st International Symposium on VLSI Design and Test VDAT 2017 held in Roorkee India in June July 2017 The 48 full papers presented together with 27 short papers were carefully reviewed and selected from 246 submissions The papers were organized in topical sections named digital design analog mixed signal VLSI testing devices and technology VLSI architectures emerging technologies and memory system design low power design and test RF circuits architecture and CAD and design verification *The British National Bibliography* Arthur James Wells, 2009

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Network Processors Panos C. Lekkas,2003-07-28 Table of contents Design News ,2002 Electrical Performance of Electronic Packaging ,2003 **2002 IEEE Nuclear Science Symposium** ,2003 *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 *High-Speed Signaling* Kyung Suk (Dan) Oh,Xing Chao (Chuck) Yuan,2011-10-07 New System Level Techniques for Optimizing Signal Power Integrity in High Speed Interfaces from Pioneering Innovators at Rambus Stanford Berkeley and MIT As data communication rates accelerate well into the multi gigahertz range ensuring signal integrity both on and off chip has become crucial Signal integrity can no longer be addressed solely through improvements in package or board level design Diverse engineering teams must work together closely from the earliest design stages to identify the best system level solutions In High Speed Signaling several of the field s most respected practitioners and researchers introduce cutting edge modeling simulation and optimization techniques for meeting this challenge Edited by pioneering experts Drs Dan Oh and Chuck Yuan these contributors explain why noise and jitter are no longer separable demonstrate how to model their increasingly complex interactions and thoroughly introduce a new simulation methodology for predicting link level performance with unprecedented accuracy The authors address signal integrity from architecture through high volume production thoroughly discussing design implementation and verification Coverage includes New advances in passive channel modeling power supply noise and jitter modeling and system margin prediction Methodologies for balancing system voltage and timing budgets to improve system robustness in high volume manufacturing Practical stable formulae for converting key network parameters Improved solutions for difficult problems in the broadband modeling of interconnects Equalization techniques for optimizing channel performance Important new insights into the relationships between jitter and clocking topologies New on chip measurement techniques for in situ link performance testing Trends and future directions in signal integrity engineering High Speed

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## **Table of Contents High Speed Serdes Devices And Applications**

1. Understanding the eBook High Speed Serdes Devices And Applications
  - The Rise of Digital Reading High Speed Serdes Devices And Applications
  - Advantages of eBooks Over Traditional Books
2. Identifying High Speed Serdes Devices And Applications
  - 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 High Speed Serdes Devices And Applications
  - User-Friendly Interface
4. Exploring eBook Recommendations from High Speed Serdes Devices And Applications
  - Personalized Recommendations
  - High Speed Serdes Devices And Applications User Reviews and Ratings
  - High Speed Serdes Devices And Applications and Bestseller Lists
5. Accessing High Speed Serdes Devices And Applications Free and Paid eBooks
  - High Speed Serdes Devices And Applications Public Domain eBooks
  - High Speed Serdes Devices And Applications eBook Subscription Services
  - High Speed Serdes Devices And Applications Budget-Friendly Options

6. Navigating High Speed Serdes Devices And Applications eBook Formats
  - ePub, PDF, MOBI, and More
  - High Speed Serdes Devices And Applications Compatibility with Devices
  - High Speed Serdes Devices And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of High Speed Serdes Devices And Applications
  - Highlighting and Note-Taking High Speed Serdes Devices And Applications
  - Interactive Elements High Speed Serdes Devices And Applications
8. Staying Engaged with High Speed Serdes Devices And Applications
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers High Speed Serdes Devices And Applications
9. Balancing eBooks and Physical Books High Speed Serdes Devices And Applications
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection High Speed Serdes Devices And Applications
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine High Speed Serdes Devices And Applications
  - Setting Reading Goals High Speed Serdes Devices And Applications
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of High Speed Serdes Devices And Applications
  - Fact-Checking eBook Content of High Speed Serdes Devices And Applications
  - 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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