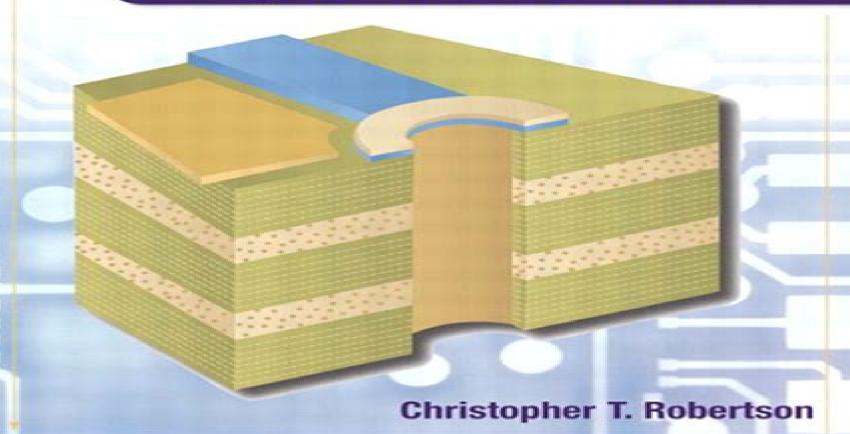
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Designer's Reference: Basics



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designs require ever greater precision but design guides for specific digital interfaces are by nature conservative Now for the first time there s a complete guide to timing analysis and simulation that will help you manage the tradeoffs between signal integrity performance and cost Writing from the perspective of a practicing SI engineer and team lead Greg Edlund of IBM presents deep knowledge and quantitative techniques for making better decisions about digital interface design Edlund shares his insights into how and why digital interfaces fail revealing how fundamental sources of pathological effects can combine to create fault conditions You won t just learn Edlund's expert techniques for avoiding failures you ll learn how to develop the right approach for your own projects and environment Coverage includes Systematically ensure that interfaces will operate with positive timing margin over the product s lifetime without incurring excess cost Understand essential chip to chip timing concepts in the context of signal integrity Collect the right information upfront so you can analyze new designs more effectively Review the circuits that store information in CMOS state machines and how they fail Learn how to time common clock source synchronous and high speed serial transfers Thoroughly understand how interconnect electrical characteristics affect timing propagation delay impedance profile crosstalk resonances and frequency dependent loss Model 3D discontinuities using electromagnetic field solvers Walk through four case studies coupled differential vias land grid array connector DDR2 memory data transfer and PCI Express channel Appendices present a refresher on SPICE modeling and a high level conceptual framework for electromagnetic field behavior Objective realistic and practical this is the signal integrity resource engineers have been searching for Preface xiii Acknowledgments xvi About the Author xix About the Cover xx Chapter 1 Engineering Reliable Digital Interfaces 1 Chapter 2 Chip to Chip Timing 13 Chapter 3 Inside IO Circuits 39 Chapter 4 Modeling 3D Discontinuities 73 Chapter 5 Practical 3D Examples 101 Chapter 6 DDR2 Case Study 133 Chapter 7 PCI Express Case Study 175 Appendix A A Short CMOS and SPICE Primer 209 Appendix B A Stroll Through 3D Fields 219 Endnotes 233 Index 235 Essential Electronic Design Automation (EDA) Mark Birnbaum, 2004 Describes the engineering needs addressed by the individual EDA tools and covers EDA from both the provider and user viewpoints Learn the importance of marketing and business trends in the EDA industry The EDA consortium is made up of major corporations Modern VLSI Design Wayne Wolf,2008-12-21 The Number 1 VLSI Design Guide Now Fully including SUN HP and Intel Updated for IP Based Design and the Newest Technologies Modern VLSI Design Fourth Edition offers authoritative up to the minute guidance for the entire VLSI design process from architecture and logic design through layout and packaging Wayne Wolf has systematically updated his award winning book for today s newest technologies and highest value design techniques Wolf introduces powerful new IP based design techniques at all three levels gates subsystems and architecture He presents deeper coverage of logic design fundamentals clocking and timing and much more No other VLSI guide presents as much up to date information for maximizing performance minimizing power utilization and achieving rapid design turnarounds Power Integrity Modeling and Design for Semiconductors and Systems Madhavan Swaminathan, Ege Engin, 2007-11-19

The First Comprehensive Example Rich Guide to Power Integrity Modeling Professionals such as signal integrity engineers package designers and system architects need to thoroughly understand signal and power integrity issues in order to successfully design packages and boards for high speed systems Now for the first time there s a complete guide to power integrity modeling everything you need to know from the basics through the state of the art Using realistic case studies and downloadable software examples two leading experts demonstrate today s best techniques for designing and modeling interconnects to efficiently distribute power and minimize noise The authors carefully introduce the core concepts of power distribution design systematically present and compare leading techniques for modeling noise and link these techniques to specific applications. Their many examples range from the simplest using analytical equations to compute power supply noise through complex system level applications. The authors Introduce power delivery network components analysis high frequency measurement and modeling requirements Thoroughly explain modeling of power ground planes including plane behavior lumped modeling distributed circuit based approaches and much more Offer in depth coverage of simultaneous switching noise including modeling for return currents using time and frequency domain analysis Introduce several leading time domain simulation methods such as macromodeling and discuss their advantages and disadvantages Present the application of the modeling methods on several advanced case studies that include high speed servers high speed differential signaling chip package analysis materials characterization embedded decoupling capacitors and electromagnetic bandgap structures This book s system level focus and practical examples will make it indispensable for every student and professional concerned with power integrity including electrical engineers system designers signal integrity engineers and materials scientists It will also be valuable to developers building software that helps to analyze high speed systems

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