

PCB Design for Real-World EMI Control

Bruce R. Archambeault



Contributions by James L. Drewniak

**Pcb Design For Real World Emi Control Author Bruce
Archambeault Published On August**

Donald R. J. White



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PCB Design for Real-World EMI Control Bruce R. Archambeault, James Drewniak, 2013-06-29 Proper design of printed circuit boards can make the difference between a product passing emissions requirements during the first cycle or not. Traditional EMC design practices have been simply rule based that is a list of rules of thumb are presented to the board designers to implement. When a particular rule of thumb is difficult to implement it is often ignored. After the product is built it will often fail emission requirements and various time consuming and costly add ons are then required. Proper EMC design does not require advanced degrees from universities nor does it require strenuous mathematics. It does require a basic understanding of the underlying principles of the potential causes of EMC emissions. With this basic understanding circuit board designers can make trade off decisions during the design phase to ensure optimum EMC design. Consideration of these potential sources will allow the design to pass the emissions requirements the first time in the test laboratory. A number of other books have been published on EMC. Most are general books on EMC and do not focus on printed circuit board. This book is intended to help EMC engineers and design design. This book engineers understand the potential sources of emissions and how to reduce control or eliminate these sources. This book is intended to be a hands on book that is designers should be able to apply the concepts in this book directly to their designs in the real world. American Book Publishing Record ,2002

PCB Design for Real-World EMI Control Bruce Archambeault, James Drewniak, 2014-01-15 **Signal Integrity Issues and Printed Circuit Board Design** Douglas Brooks, 2003 Complicated concepts explained succinctly and in laymen s terms to both experienced and novice PCB designers. Numerous examples allow reader to visualize how high end software simulators see various types of SI problems and then their solutions. Author is a frequent and recognized seminar leader in the industry. *EMC and the Printed Circuit Board* Mark I. Montrose, 2004-04-05 This accessible new reference work shows how and why RF energy is created within a printed circuit board and the manner in which propagation occurs. With lucid explanations this book enables engineers to grasp both the fundamentals of EMC theory and signal integrity and the mitigation process needed to prevent an EMC event. Author Montrose also shows the relationship between time and frequency domains to help you meet mandatory compliance requirements placed on printed circuit boards. Using real world examples the book features clear discussions without complex mathematical analysis of flux minimization concepts. Extensive analysis of capacitor usage for various applications. Detailed examination of components characteristics with various grounding methodologies including implementation techniques. An in depth study of transmission line theory. A careful look at signal integrity crosstalk and termination. *PCB Currents, Enhanced Edition* Douglas Brooks, 2013-07-22 This is the enhanced eBook version of the printed book. It contains 1 hour and 48 minutes of video conversations and circuit animations from the industry s leading circuit design engineer Doug Brooks. Today PCB designers must deal with issues such as crosstalk and EMI issues that were once associated only with components. This requires electronics knowledge that many PCB designers never

gain through formal training In PCB Currents renowned PCB designer Douglas Brooks teaches these essentials descriptively in plain English with as little reliance on mathematics as possible Building on his widely praised seminars Brooks explains what current is how it flows and how it reacts He begins by reviewing the nature of current and then explains current flow in basic circuits discusses sources that supply and drive current and addresses the unique problems associated with current on PCBs Brooks concludes by thoroughly illuminating signal integrity issues caused by current flow He offers practical design solutions for each common type of problem as well as for complex challenges involving very high frequency harmonics and very short wavelengths The text is written to be accessible and valuable for PCB designers at all levels of experience whether they have engineering training or not Finally in this Enhanced eBook Edition some videos and animations have been incorporated as an additional benefit They fall into four categories First there is an introductory video at the beginning of the Preface It is intended to help put the entire book into a perspective Second each section has an introductory video that outlines what is contained within that section and in most cases the most important points to be discovered in that section Third each chapter has its own short introduction again highlighting the most important points within the chapter Finally in Chapters 17 and 18 we have some animation videos to help explain some dynamic interactions It is hard to envision what is happening when a signal reflects off the far end of a trace or when a signal couples into an adjacent trace crosstalk as it travels along using just static figures But an animation video makes these phenomena much easier to understand These videos are an important benefit available to you the ebook reader and one that cannot be incorporated into a print edition

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