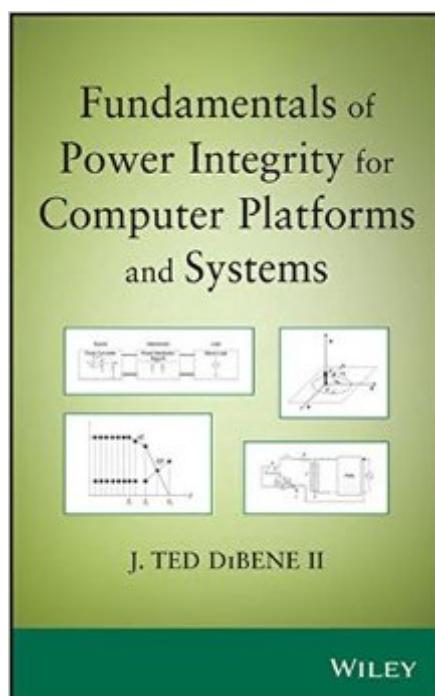


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Fundamentals Of Power Integrity For Computer Platforms And Systems



Synopsis

An all-encompassing text that focuses on the fundamentals of power integrity. Power integrity is the study of power distribution from the source to the load and the system level issues that can occur across it. For computer systems, these issues can range from inside the silicon to across the board and may egress into other parts of the platform, including thermal, EMI, and mechanical. With a focus on computer systems and silicon level power delivery, this book sheds light on the fundamentals of power integrity, utilizing the author's extensive background in the power integrity industry and unique experience in silicon power architecture, design, and development. Aimed at engineers interested in learning the essential and advanced topics of the field, this book offers important chapter coverage of fundamentals in power distribution, power integrity analysis basics, system-level power integrity considerations, power conversion in computer systems, chip-level power, and more. *Fundamentals of Power Integrity for Computer Platforms and Systems*: Introduces readers to both the field of power integrity and to platform power conversion. Provides a unique focus on computer systems and silicon level power delivery unavailable elsewhere. Offers detailed analysis of common problems in the industry. Reviews electromagnetic field and circuit representation. Includes a detailed bibliography of references at the end of each chapter. Works out multiple example problems within each chapter. Including additional appendixes of tables and formulas, *Fundamentals of Power Integrity for Computer Platforms and Systems* is an ideal introductory text for engineers of power integrity as well as those in the chip design industry, specifically physical design and packaging.

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Customer Reviews

The author is from Intel and this is main reason I bought this book to learn a bit of insight of the PDN. I would say, I don't learn much after reading the whole book. Most of the principles are quite brief. Not any of the key points is explained down to the earth. A lot of typos, especially, 10^x and e^x ... The writing is a bit of hard to follow compared with many other books in the same topic. Also the plots and figures are not very well prepared. Two things I like about the book : 1) good collection of references that saves my time for searching 2) system review for example LL and TOB.. So 2 stars from me.

great power integrity book with practical techniques and advanced topics

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