



# Fundamentals of Power Integrity for Computer Platforms and Systems

By Joseph T. DiBene II



**Fundamentals of Power Integrity for Computer Platforms and Systems** By Joseph T. DiBene II

**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.

 [Download Fundamentals of Power Integrity for Computer Platf ...pdf](#)

 [Read Online Fundamentals of Power Integrity for Computer Pla ...pdf](#)

# Fundamentals of Power Integrity for Computer Platforms and Systems

By Joseph T. DiBene II

**Fundamentals of Power Integrity for Computer Platforms and Systems** By Joseph T. DiBene II

**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.

**Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II**  
**Bibliography**

- Sales Rank: #1754946 in Books
- Published on: 2014-03-03
- Original language: English
- Number of items: 1
- Dimensions: 9.55" h x .85" w x 6.40" l, .0 pounds
- Binding: Hardcover
- 280 pages

 [\*\*Download\*\* Fundamentals of Power Integrity for Computer Platf ...pdf](#)

 [\*\*Read Online\*\* Fundamentals of Power Integrity for Computer Pla ...pdf](#)

## Download and Read Free Online Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II

---

### Editorial Review

From the Back Cover

#### **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.

About the Author

**J. TED DIBENE II, PhD**, is a Senior Power Architect at Intel Corporation. His main focus is in the area of power management and power delivery for advanced microprocessors, SoC's, and other silicon devices. Prior to joining Intel, Dr. DiBene held the position of CTO at INCEP Technologies Inc., which he cofounded in 1999.

### Users Review

**From reader reviews:**

**Sharonda Adair:**

The book Fundamentals of Power Integrity for Computer Platforms and Systems make one feel enjoy for your spare time. You can use to make your capable considerably more increase. Book can for being your best friend when you getting pressure or having big problem together with your subject. If you can make

reading a book Fundamentals of Power Integrity for Computer Platforms and Systems to get your habit, you can get far more advantages, like add your own capable, increase your knowledge about a number of or all subjects. It is possible to know everything if you like available and read a book Fundamentals of Power Integrity for Computer Platforms and Systems. Kinds of book are several. It means that, science guide or encyclopedia or other individuals. So , how do you think about this book?

### **Martina Lassiter:**

Here thing why that Fundamentals of Power Integrity for Computer Platforms and Systems are different and reputable to be yours. First of all studying a book is good nevertheless it depends in the content of it which is the content is as delightful as food or not. Fundamentals of Power Integrity for Computer Platforms and Systems giving you information deeper and different ways, you can find any publication out there but there is no guide that similar with Fundamentals of Power Integrity for Computer Platforms and Systems. It gives you thrill studying journey, its open up your current eyes about the thing this happened in the world which is might be can be happened around you. You can bring everywhere like in playground, café, or even in your means home by train. If you are having difficulties in bringing the printed book maybe the form of Fundamentals of Power Integrity for Computer Platforms and Systems in e-book can be your option.

### **Richard Graham:**

Reading a publication tends to be new life style with this era globalization. With examining you can get a lot of information that could give you benefit in your life. Having book everyone in this world may share their idea. Ebooks can also inspire a lot of people. A great deal of author can inspire all their reader with their story as well as their experience. Not only the storyplot that share in the books. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your children, there are many kinds of book which exist now. The authors these days always try to improve their ability in writing, they also doing some exploration before they write to their book. One of them is this Fundamentals of Power Integrity for Computer Platforms and Systems.

### **Sam Nielsen:**

People live in this new moment of lifestyle always make an effort to and must have the extra time or they will get lot of stress from both everyday life and work. So , whenever we ask do people have extra time, we will say absolutely of course. People is human not really a huge robot. Then we inquire again, what kind of activity do you possess when the spare time coming to you actually of course your answer may unlimited right. Then ever try this one, reading publications. It can be your alternative in spending your spare time, often the book you have read is actually Fundamentals of Power Integrity for Computer Platforms and Systems.

## **Download and Read Online Fundamentals of Power Integrity for**

**Computer Platforms and Systems By Joseph T. DiBene II**  
**#GXWUZE4MI8V**

# **Read Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II for online ebook**

Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II books to read online.

## **Online Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II ebook PDF download**

**Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II Doc**

**Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II MobiPocket**

**Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II EPub**

**GXWUZE4MI8V: Fundamentals of Power Integrity for Computer Platforms and Systems By Joseph T. DiBene II**