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Signal And Power Integrity Simplified

A fully up-to-date introduction to signal integrity and physical design How design and technology selection can make or break the performance of the power distribution network Exploration of key concepts, such as plane impedance, spreading inductance, decoupling capacitors, and capacitor loop inductance

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If you are new to signal integrity, this second edition of Signal and Power Integrity—Simplifiedprovides your starting place to build a strong foundation and empowers you to get your new signal integrity designs right the first time, every time.

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This book brings together up-to-the-minute techniques for finding, fixing, and avoiding signal integrity problems in your design. Drawing on his work teaching several thousand engineers and graduate students, world-renowned expert Eric Bogatin systematically presents the root causes of all six families of signal integrity, power integrity, and electromagnetic compatibility problems.

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All of these problems fall into one of the following three categories, each with considerable overlap with the others: 1. Signal integrity (SI), involving the distortion of signals 2. Power integrity (PI), involving the noise on the interconnects and any associated components delivering power to the active devices 3.

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A fully up-to-date introduction to signal integrity and physical design How design and technology selection can make or break the performance of the power distribution network Exploration of key...

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Signal and Power Integrity is the de facto bible for anyone who is aspiring to be a good SI Engineer. Though he advised, the book is more inclined towards SI stuff and less of PI (you'll find only one chapter dedicated to PDN) that I would like. Plus, though the author explains each concept clearly with examples, there are some topics where ...

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Signal integrity generally is defined as any deviation from ideal waveform. 2 As such, signal integrity contains both amplitude noise and timing jitter in a broad sense. However, certain signal integrity signatures such as overshoot, undershoot, and ringing (see Figure 1.3) may not be well covered by either noise or jitter alone.