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By Istvan Novak, Jason R Miller

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Power distribution networks (PDNs) are key components in today's high-performance electronic circuitry. They ensure that circuits have a constant, stable supply of power. The complexities of designing PDNs have been dramatically reduced by frequency-domain analysis. This book examines step-by-step how electrical engineers can use frequency-domain techniques to accurately simulate, measure, and model PDNs. It guides engineers through the ins and outs of these techniques to ensure they develop the right PDN for any type of circuit. Circuit engineers gain valuable insight from the book's best practices for measuring, simulating, and modeling. Practical examples illustrate every phase in PDN development from material characterization and component design to modeling the entire network.

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Frequency-Domain Characterization of Power Distribution Networks (Artech House Microwave Library (Hardcover)) By Istvan Novak, Jason R Miller Bibliography

- Sales Rank: #1969621 in Books
- Brand: Brand: Artech House Publishers
- Published on: 2007-07-31
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .81" w x 7.01" l, 1.76 pounds
- Binding: Hardcover
- 339 pages

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Editorial Review

About the Author
Istvan Novak is a distinguished engineer at Sun Microsystems. A fellow of the IEEE, he holds an M.S. in electrical engineering from the Technical University of Budapest and a Ph.D. in precision electrical measurements from the Hungarian Academy of Sciences.

Jason R. Miller is a senior staff engineer at Sun Microsystems. He attended Columbia University where he received his M.S. and Ph.D. in electrical engineering.

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