



Dynamic Profile of Switched-Mode Converter: Modeling, Analysis and Control

By Teuvo Suntio

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This book collates the information available on this topic, hitherto only to be found in journals and at conferences. It presents the fundamentals and advances in average and small-signal modeling of switched-mode converters, before applying this information to generate a real canonical converter model. Practical examples are scattered throughout the text, and experimental evidence is cited to support theoretical findings.

The result is a solid basis for understanding and utilizing the dynamics of switched-mode converters -- for the first time in their 40-year history.

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Dynamic Profile of Switched-Mode Converter: Modeling, Analysis and Control By Teuvo Suntio Bibliography

- Sales Rank: #5199714 in Books
- Brand: Brand: Wiley-VCH
- Published on: 2009-04-13
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x .90" w x 6.90" l, .0 pounds
- Binding: Hardcover
- 369 pages

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Editorial Review

From the Back Cover

This book provides information which is essential for designing high quality switched-mode converters, understanding the origin of the problems usually encountered in the practical applications, and avoiding them. It presents the fundamentals of the dynamic characterization of switched-mode converters applicable for individual converters and interconnected systems composed of them, as well as useful detailed information on specific design topics. The theoretical findings are validated with experimental evidence. A comprehensive list of references is provided at the end of each chapter.

About the Author

Teuvo Suntio received his Ph.D. degree in electrical engineering from Helsinki University of Technology, Finland. After several R & D engineering and managerial positions during his 22 years in the Power Electronics Industry, he accepted a post as a Professor in the Electronics Laboratory at the University of Oulu, Finland, before moving to the Department of Electrical Energy Engineering, Tampere University of Technology in 2004. Professor Suntio's research interests include dynamic characterization and control design of switched-mode converters and the systems composed of them as well as the interfacing issues of renewable energy sources. He holds several international patents and is a Senior Member of IEEE.

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