



Resonant Power Converters

By Marian K. Kazimierczuk, Dariusz Czarkowski

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This book is devoted to resonant energy conversion in power electronics. It is a practical, systematic guide to the analysis and design of various dc-dc resonant inverters, high-frequency rectifiers, and dc-dc resonant converters that are building blocks of many of today's high-frequency energy processors. Designed to function as both a superior senior-to-graduate level textbook for electrical engineering courses and a valuable professional reference for practicing engineers, it provides students and engineers with a solid grasp of existing high-frequency technology, while acquainting them with a number of easy-to-use tools for the analysis and design of resonant power circuits. Resonant power conversion technology is now a very hot area and in the center of the renewable energy and energy harvesting technologies.

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Resonant Power Converters By Marian K. Kazimierczuk, Dariusz Czarkowski Bibliography

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Editorial Review

Review

“If I did not have a review copy, as a power-circuits designer, I would get out my credit card for this one. It deserves a place on the power-electronics bookshelf.” (*How2Power Today*, 1 January 2013)

From the Back Cover

Second Edition Enables You to Apply the Latest Technology to Design High-Frequency Power Electronic Circuits

Dedicated exclusively to resonant energy conversion, the *Second Edition of Resonant Power Converters* enables you to build a solid understanding of the state-of-the-art in resonant technology. You get all the tools needed to effectively analyze and design high-frequency power electronic circuits, including de-ac resonant inverters, high-frequency rectifiers, and d-dc converters.

This *Second Edition* has been thoroughly revised and updated, integrating the latest technology and research findings. In addition, it has been significantly expanded with new chapters examining class DE inverters and converters, quasi- and multi-resonant converters, and control of resonant converters.

Classroom-tested, *Resonant Power Converters* is clear, logically organized, and filled with plenty of features that enable you to quickly build your knowledge and skills, including:

- Closed-form formulas with illustrative graphics for all converter characteristics
- Step-by-step examples guiding you through complex analysis and design procedures
- End-of-chapter summaries highlighting the most important concepts
- Summary and comparison tables for at-a-glance overviews
- Bibliographies at the end of each chapter leading you to the primary literature

In addition, each chapter ends with a set of review questions to make sure you have grasped all the key points before progressing in the text. Each chapter also includes a set of real-world resonant energy conversion problems so that you can put your new skills into practice. All these features make this text ideal for upper-level undergraduate and graduate students as well as professional engineers who need to be able to both understand and apply the latest resonant conversion technology.

About the Author

Marian K. Kazimierczuk, PhD, DSci, is the Robert J. Kegerreis Distinguished Professor of Teaching and was Brage Golding Distinguished Professor of Research Award at Wright State University. D. Kazimierczuk has taught graduate courses in high-frequency power electronics for more than twenty years in the Department of Electrical Engineering. He has won the Board of Trustees' Award for Faculty Excellence,

several Excellence in Teaching and Research Awards from Wright State University, the Outstanding Teaching Award from the American Society for Engineering Education, and the National Professorship of Technical Sciences awarded by the President of Poland. He holds seven patents and is the author of six books, 145 peer-reviewed journal papers, and 190 conference papers. Dr. Kazimierczuk is an IEEE Fellow and also an Associate Editor of the IEEE Transactions on Industrial Electronics and International Journal of Circuit Theory and Application.

Dariusz Czarkowski, PhD, is an Associate Professor in the Department of Electrical and Computer Engineering at the Polytechnic Institute of New York University. His research focuses on power electronics and power systems.

Users Review

From reader reviews:

Adrian Woodson:

As people who live in the modest era should be revise about what going on or info even knowledge to make these keep up with the era that is always change and move forward. Some of you maybe will probably update themselves by examining books. It is a good choice for you but the problems coming to you actually is you don't know what one you should start with. This Resonant Power Converters is our recommendation to make you keep up with the world. Why, as this book serves what you want and wish in this era.

Michael Hill:

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Eleanor Walker:

Playing with family within a park, coming to see the sea world or hanging out with buddies is thing that usually you have done when you have spare time, after that why you don't try thing that really opposite from that. One activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of knowledge. Even you love Resonant Power Converters, you are able to enjoy both. It is very good combination right, you still wish to miss it? What kind of hang-out type is it? Oh occur its mind hangout guys. What? Still don't get it, oh come on its named reading friends.

Leon King:

Resonant Power Converters can be one of your beginning books that are good idea. We recommend that straight away because this book has good vocabulary that may increase your knowledge in words, easy to

understand, bit entertaining however delivering the information. The copy writer giving his/her effort to get every word into pleasure arrangement in writing Resonant Power Converters although doesn't forget the main point, giving the reader the hottest and based confirm resource information that maybe you can be among it. This great information can drawn you into brand new stage of crucial imagining.

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