



## Resonant Power Converters

By Marian K. Kazimierczuk, Dariusz Czarkowski

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

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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### 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.

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#### 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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