

Wireless Power Handbook: A Supplement to GaN Transistors for Efficient Power Conversion Second Edition

By Michael A. de Rooij

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This second edition comes less than a year following the release of the first edition this is the pace at which the understanding and application of wireless power transfer is moving. Cut the cord is the battle cry and now that we know it can be done, what s holding us back, let s pick up speed and get on with it!

The scope of this second edition has expanded to include the latest work on A4WP class 2 and class 3 transmitters, adaptive tuning, radiated EMI, multi-mode wireless power systems, and control strategies. There are also systems demonstrated using the latest in eGaN FETs and integrated circuits that set new efficiency benchmarks as well as reduce system costs.

There is still much more to accomplish as this fast moving technology evolves; the purpose of this second edition is to share the latest information on the subject.

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Editorial Review

About the Author
Dr. Michael A. de Rooij is the Vice President of Applications Engineering at Efficient Power Conversion Corporation (EPC) headquartered in El Segundo, CA.

Prior to joining EPC, he worked at Windspire Energy Inc., in the capacity of Director of Product Development where he helped develop the next generation of small vertical-axis wind turbine inverters.

From 2002 to 2008, Dr. de Rooij worked as a Senior Engineer at the GE Global Research Center, located in Niskayuna, NY. Before joining GE, Dr. de Rooij conducted Post-Doctoral studies on power electronic integration, packaging and high-frequecy MOSFET gate driver at the Center for Power Electronic Systems (CPES) at the Virginia Polytechnic and State University. From 1998 through 2000, he was employed in the capacity of senior designer at IMV Victron in Groningen, The Netherlands, where his duties included the design of single-phase uninterruptible power supplies in the power range of 600 VA through 10 kVA.

Dr. de Rooij received his Ph.D. from the former Rand Afrikaans University (now known as the University of Johannesburg), South Africa in 1998. He is a Senior Member of the IEEE and is the author and co-author of over 25 international publications. Dr. de Rooij most recently co-authored *GaN Transistors for Efficient Power Conversion*, a textbook on gallium nitride technology. In addition, he has been granted 21 US and International patents and 19 US and International pending patent applications.

Dr. de Rooij s research interests and activities include wireless power transfer, solid-state high-frequency power converters and devices, uninterruptible power supplies, integration of power electronic converters, power electronic packaging, induction heating, photovoltaic converters, Magnetic Resonance Imaging (MRI) Systems, RF amplifiers and gate drivers with protection features.

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