



Switchmode RF and Microwave Power Amplifiers, Second Edition

Andrei Grebennikov, Nathan O. Sokal, Marc J Franco

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Combining solid theoretical discussions with practical design examples, this book is an essential reference on developing RF and microwave switchmode power amplifiers.

With this book you will be able to:

- Design high-efficiency RF and microwave power amplifiers on different types of bipolar and field-effect transistors using well-known and novel theoretical approaches, nonlinear simulation tools, and practical design techniques
- Design any type of high-efficiency switchmode power amplifiers operating in Class D or E at lower frequencies and in Class E or F and their subclasses at microwave frequencies, with specified output power
- Understand the theory and practical implementation of load-network design techniques based on lumped and transmission-line elements
- Combine multi-stage Doherty architecture and switchmode power amplifiers to significantly increase efficiency of the entire radio transmitter
- Learn the different types of predistortion linearization techniques required to improve the quality of signal transmission in a nonlinear amplifying system

New to this edition:

- Comprehensive overview of different Doherty architectures which are, and will be used in modern communication systems to save power consumption and reduce costs
- A new chapter on analog and digital predistortion techniques
- Coverage of broadband Class-F power amplifiers, high-power inverse Class-F power amplifiers for WCDMA systems, broadband Class-E techniques

*Unique focus on switchmode RF and microwave power amplifiers that are widely used in cellular/wireless, satellite and radar communication systems and which offer major power consumption savings

*Complete coverage of the new Doherty architecture which offers major efficiencies and savings on power consumption

*Balances theory with practical implementation, avoiding a cookbook approach, enabling engineers to develop better designs

*Trusted content from leading figures in the field with a Foreword of endorsement by Zoya Popovic

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