Switchmode RF and Microwave Power Amplifiers

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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 implementatation, 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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From reader reviews:

Richard Martinez:

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Dane People:

People live in this new day of lifestyle always try and and must have the spare time or they will get large amount of stress from both everyday life and work. So , if we ask do people have time, we will say absolutely yes. People is human not just a robot. Then we ask again, what kind of activity do you have when the spare time coming to you actually of course your answer may unlimited right. Then do you try this one, reading books. It can be your alternative inside spending your spare time, often the book you have read is Switchmode RF and Microwave Power Amplifiers.

Emilie Lechner:

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