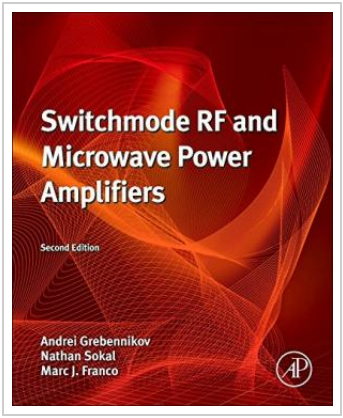

Switchmode RF and Microwave Power Amplifiers (Hardback)

By Andrei Grebennikov, Nathan O. Sokal, Marc Franco

Elsevier Science Publishing Co Inc, United States, 2012. Hardback. Condition: New. 2nd edition. Language: English . Brand New Book. 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...

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