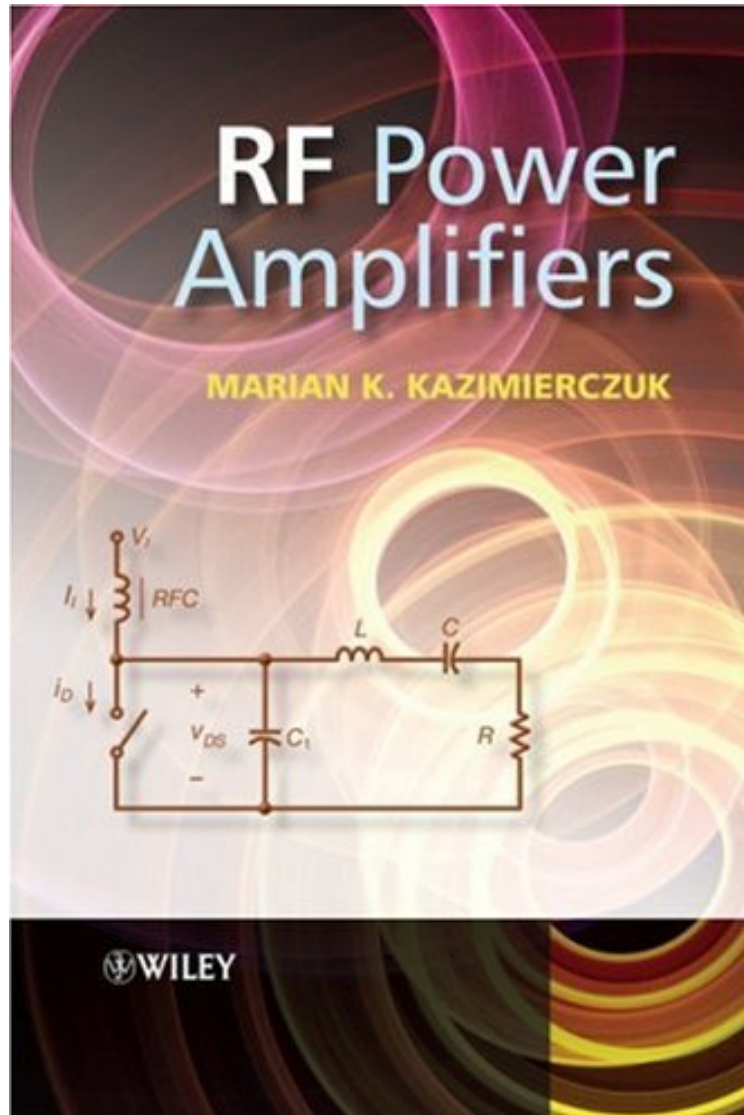


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RF Power Amplifiers

Marian K. Kazimierczuk

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tank circuit in the output matching network of a C-class amplifier?. Function-wise, what is the main difference between the output matching networks in a low-signal amplifier and high-power amplifier?. Should both of them be match always to 50 ohms?. These and many other topics are not answered in the book. You will just see page after page of mathematical equations. So, if you love electronics and mathematics, this is the book for you! 2 of 2 people found the following review helpful. A good Introduction...By Mauiboy2000 This book is a good introduction textbook for RF Power Amplifiers. I found text to be very easy to follow and provides a good introduction to the various classes of RF power amplifiers and their respective operating condition for each class mode. It is clearly what I would call a 'starter' textbook to get your feet wet to understand the basics for power amplifier operation and easy to grasp the concepts. The book does not discuss a great deal on matching networks; it touches on it, but not in great depth.

An advanced textbook covering the fundamental theory of RF power amplifiers and their uses, this book provides essential guidance for design procedures. The introduction explains the basic theory of RF power amplifiers besides providing the basic classification of the different types of RF power amplifier. It then systematically dedicates a chapter to each different of RF power amplifier covering A, B and C, D (full-bridge and half-bridge types), E (zero-voltage-switching and zero-current-switching), F and DE amplifiers. Throughout this comprehensive guide, the optimal operating conditions are explored and the possible causes for suboptimum operation explained. The book then considers integrated inductors and linearization techniques and LC Oscillators in the concluding chapters. A comprehensive text covering the fundamentals of RF power amplifiers and their range of applications in radio and TV broadcasting, wireless communications and radars. Presents accessible coverage of the complex principles of operation of RF power amplifiers and radio power systems. Introduces the fundamental design techniques and procedures for practitioners for RF power amplifiers. All chapters contain examples and design procedures throughout, with review questions and problems at the end of each chapter. A solutions manual is available for instructors upon enquiry

From the Back Cover This excellent introductory text covers the fundamental theory of radio frequency (RF) power amplifiers and their uses in a range of applications within radio and TV broadcasting, wireless communications and radars. With clear vision and structure, this book dedicates chapters to individual RF power amplifiers, analysing them and providing the practitioner with basic design techniques and essential design procedure guidance on: Class A amplifiers