

Switchmode RF and Microwave Power Amplifiers

Second Edition

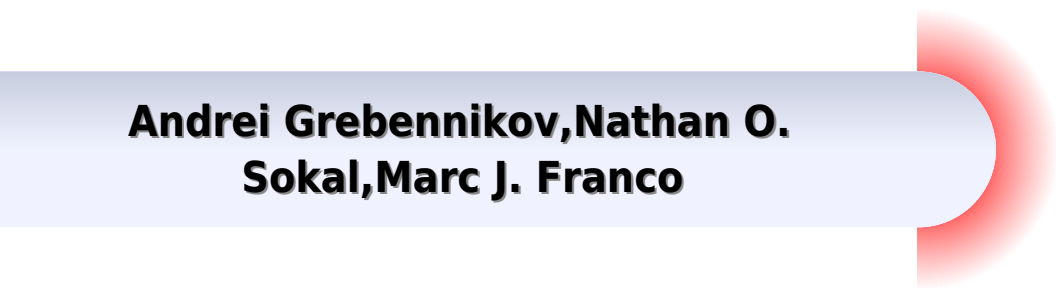
**Andrei Grebennikov
Nathan Sokal
Marc J. Franco**



Switchmode Rf And Microwave Power Amplifiers

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Sokal, Marc J. Franco**



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Switchmode RF and Microwave Power Amplifiers Andrei Grebennikov, Nathan O. Sokal, Marc J. Franco, 2012-06-28

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

Switchmode RF and Microwave Power Amplifiers Andrei Grebennikov, Marc J. Franco, 2021-03-19

Switchmode RF and Microwave Power Amplifiers Third Edition is an essential reference book on developing RF and microwave switchmode power amplifiers The book combines theoretical discussions with practical examples allowing readers to design high efficiency RF and microwave power amplifiers on different types of bipolar and field effect transistors 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 also providing techniques on how to design multiband and broadband Doherty amplifiers using different bandwidth extension techniques and implementation technologies This book provides the necessary information to understand the theory and practical implementation of load network design techniques based on lumped and transmission line elements It brings a unique focus on switchmode RF and microwave power amplifiers that are widely used in cellular wireless satellite and radar communication systems which offer major power consumption savings Provides a complete history of high efficiency Class E and Class F techniques Presents a new chapter on Class E with shunt capacitance and shunt

filter to simplify the design of high efficiency power amplifier with broader frequency bandwidths Covers different Doherty architectures including integrated and monolithic implementations which are and will be used in modern communication systems to save power consumption and to reduce size and costs Includes extended coverage of multiband and broadband Doherty amplifiers with different frequency ranges and output powers using different bandwidth extension techniques Balances theory with practical implementation avoiding a cookbook approach and enabling engineers to develop better designs including hybrid integrated and monolithic implementations

Switchmode RF and Microwave Power Amplifiers, Second Edition Andrei Grebennikov, Nathan O. Sokal, Marc J. Franco, 2012

Switchmode RF Power Amplifiers Andrei Grebennikov, Nathan O. Sokal, Marc J. Franco, 2011-04-01

A majority of people now have a digital mobile device whether it be a cell phone laptop or blackberry Now that we have the mobility we want it to be more versatile and dependable RF power amplifiers accomplish just that These amplifiers take a small input and make it stronger and larger creating a wider area of use with a more robust signal Switching mode RF amplifiers have been theoretically possible for decades but were largely impractical because they distort analog signals until they are unrecognizable However distortion is not an issue with digital signals like those used by WLANs and digital cell phones and switching mode RF amplifiers have become a hot area of RF wireless design This book explores both the theory behind switching mode RF amplifiers and design techniques for them Provides essential design and implementation techniques for use in cma2000 WiMAX and other digital mobile standards Both authors have written several articles on the topic and are well known in the industry Includes specific design equations to greatly simplify the design of switchmode amplifiers

Fundamentals of RF and Microwave Transistor Amplifiers Inder Bahl, 2009-06-17

A Comprehensive and Up to Date Treatment of RF and Microwave Transistor Amplifiers This book provides state of the art coverage of RF and microwave transistor amplifiers including low noise narrowband broadband linear high power high efficiency and high voltage Topics covered include modeling analysis design packaging and thermal and fabrication considerations Through a unique integration of theory and practice readers will learn to solve amplifier related design problems ranging from matching networks to biasing and stability More than 240 problems are included to help readers test their basic amplifier and circuit design skills and more than half of the problems feature fully worked out solutions With an emphasis on theory design and everyday applications this book is geared toward students teachers scientists and practicing engineers who are interested in broadening their knowledge of RF and microwave transistor amplifier circuit design

RF Power Amplifiers Marian K. Kazimierczuk, 2014-12-15

This second edition of the highly acclaimed RF Power Amplifiers has been thoroughly revised and expanded to reflect the latest challenges associated with power transmitters used in communications systems With more rigorous treatment of many concepts the new edition includes a unique combination of class tested analysis and industry proven design techniques Radio frequency RF power amplifiers are the fundamental building blocks used in a vast variety of wireless communication circuits radio and TV

broadcasting transmitters radars wireless energy transfer and industrial processes Through a combination of theory and practice RF Power Amplifiers Second Edition provides a solid understanding of the key concepts the principle of operation synthesis analysis and design of RF power amplifiers This extensive update boasts up to date end of chapter summaries review questions and problems an expansion on key concepts new examples related to real world applications illustrating key concepts and brand new chapters covering hot topics such as RF LC oscillators and dynamic power supplies Carefully edited for superior readability this work remains an essential reference for research development staff and design engineers Senior level undergraduate and graduate electrical engineering students will also find it an invaluable resource with its practical examples summaries review questions and end of chapter problems Key features A fully revised solutions manual is now hosted on a companion website alongside new simulations Extended treatment of a broad range of topologies of RF power amplifiers In depth treatment of state of the art of modern transmitters and a new chapter on oscillators Includes problem solving methodology step by step derivations and closed form design equations with illustrations

Power Amplifiers for the S-, C-, X- and Ku-bands Mladen Božanić, Saurabh Sinha, 2015-12-29 This book provides a detailed review of power amplifiers including classes and topologies rarely covered in books and supplies sufficient information to allow the reader to design an entire amplifier system and not just the power amplification stage A central aim is to furnish readers with ideas on how to simplify the design process for a preferred power amplifier stage by introducing software based routines in a programming language of their choice The book is in two parts the first focusing on power amplifier theory and the second on EDA concepts Readers will gain enough knowledge of RF and microwave transmission theory principles of active and passive device design and manufacturing and power amplifier design concepts to allow them to quickly create their own programs which will help to accelerate the transceiver design process All circuit designers facing the challenge of designing an RF or microwave power amplifier for frequencies from 2 to 18 GHz will find this book to be a valuable asset

Information Technology for Education, Science, and Technics Emil Faure, Olena Danchenko, Maksym Bondarenko, Yurii Tryus, Constantine Bazilo, Grygoriy Zaspá, 2023-06-17 This book gathers selected high quality full text papers presented at the VI International Scientific and Practical Conference on Information Technology for Education Science and Technics ITEST 2022 The book deals with issues related to mathematical and computer modeling of physical chemical and economic processes with information security as well as the use of information and communication technology in scientific research automation of technological processes and management of complex systems In this book the authors explore various aspects of the development of information technology and systems and its application in education science engineering economics and management A part of the book is devoted to the application of information and communication technology in higher education in particular the creation and implementation of scientific and educational resources in higher education institutions as part of the process of education digital transformation

Distributed Power Amplifiers for RF and

Microwave Communications Narendra Kumar, Andrei Grebennikov, 2015-06-01 This new resource presents readers with all relevant information and comprehensive design methodology of wideband amplifiers This book specifically focuses on distributed amplifiers and their main components and presents numerous RF and microwave applications including well known historical and recent architectures theoretical approaches circuit simulation and practical implementation techniques A great resource for practicing designers and engineers this book contains numerous well known and novel practical circuits architectures and theoretical approaches with detailed description of their operational principles RF and Microwave Transmitter Design Andrei Grebennikov, 2011-09-19 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their components Jam packed with information this book broadcasts and streamlines the author's considerable experience in RF and microwave design and development

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