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*Page 11/77*

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A linear amplifier is a radio frequency (RF) power amplifier that provides highly linear power with the input and output keeping, their relationship proportional all the while. Linear amplifiers are focused to concentrate on linearity in all types of load situations. Linear amplifiers are most

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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

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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

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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

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*Page 46/77*

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for the optimization of linear CMOS power amplifiers from the first steps of the design to the final IC implementation and tests. The authors also focuses on design guidelines of the inductor's geometrical characteristics for power applications and covers their measurement and

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transistor amplifier circuit design.

RF power amplifiers are implemented in communication, semiconductor wafer processing, magnetic resonance imaging (MRI), and radar systems to produce RF signal with the desired characteristics to perform several

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critical tasks in the entire system. They can be designed to operate in linear or switch-mode, depending on the specific application. This book explores the design and implementation methods for both linear and switch-mode amplifiers with real world engineering problems. The

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text discusses phased controlled switch-mode amplifiers and distortion and modulation effects in RF amplifiers. It illustrates the interface and integration of components and sub-systems for RF amplifiers. The material is further reinforced with MATLAB design files.

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3