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Based on the AD200 amplifier, this hybrid-design utilises a 12AX7 valve in the preamp stage and a 12AT7 valve for the Send output of the FX loop. The return input has a solid-state stage and a ...

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This book presents a collection of "lessons" on various topics commonly encountered in electronic circuit design, including some basic circuits and some complex electronic circuits, which it uses as vehicles to explain the basic circuits they are composed of. The circuits considered include a linear amplifier, oscillators, counters, a digital clock, power supplies, a heartbeat detector, a sound equalizer, an audio power amplifier and a radio. The theoretical analysis has been deliberately kept to a minimum, in order to dedicate more time to a "learning by doing" approach, which, after a brief review of the theory, readers are encouraged to use directly with a simulator tool to examine the operation of circuits in a "virtual laboratory." Though the book is not a theory textbook, readers should be familiar with the basic principles of electronic design, and with spice-like simulation tools. To help with the latter aspect, one chapter is dedicated to the basic functions and commands of the OrCad P-spice simulator used for the experiments described in the book.

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Introduction to RF Power Amplifier Design and Simulation fills a gap in the existing literature by providing step-by-step guidance for the design of radio frequency (RF) power amplifiers, from analytical formulation to simulation, implementation, and measurement. Featuring numerous illustrations and examples of real-world engineering applications, this book: Gives an overview of intermodulation and elaborates on the difference between linear and nonlinear amplifiers Describes the high-frequency model and transient characteristics of metal-oxide-semiconductor field-effect transistors Details active device modeling techniques for transistors and parasitic extraction methods for active devices Explores network and scattering parameters, resonators, matching networks, and tools such as the Smith chart Covers power-sensing devices including four-port directional couplers and new types of reflectometers Presents RF filter designs for power amplifiers

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as well as application examples of special filter types Demonstrates the use of computer-aided design (CAD) tools, implementing systematic design techniques Blending theory with practice, Introduction to RF Power Amplifier Design and Simulation supplies engineers, researchers, and RF/microwave engineering students with a valuable resource for the creation of efficient, better-performing, low-profile, high-power RF amplifiers.

Simplified Design of Data Converters shows how to design and experiment with data converters, both analog-to-digital and digital to analog. The design approach here is the same one used in all of John Lenk's best-selling books on simplified and practical design. Throughout the book, design problems start with guidelines for selecting all components on a trial-value basis, assuming a specific design goal and set of conditions. Then, using the guideline values in experimental circuits, the desired results are produced by varying the experimental component values, if needed. If you are a working engineer responsible for designing data-converters circuits, or selecting IC data converters, the variety of circuit configurations described here should generally simplify your task. Not only does the book describe converter-circuit designs, but it also covers the most popular forms of data-converter ICs available. Throughout the book, you will find a wealth of information on data-converter ICs and related components. For all skill levels. Tells how to design and build data-converter circuits from scratch.

Introduces timed arrays and design approaches to meet the new high performance standards The author concentrates on any aspect of an antenna array that must be viewed from a time perspective. The first chapters briefly introduce antenna arrays and explain the difference between phased and timed arrays. Since timed arrays are designed for realistic time-varying signals and scenarios, the book also reviews wideband signals, baseband and passband RF signals, polarization and signal bandwidth. Other topics covered include time domain, mutual coupling, wideband elements, and dispersion. The author also presents a number of analog and digital beamforming networks for creating and manipulating beams. The book concludes with an overview of the methods to integrate time delay into the array design and of several other adaptive arrays that prove useful in many different systems. Examines RF signal concepts such as polarization and signal bandwidth and their applications to timed antenna arrays Covers arrays of point source, elements in timed antenna arrays, active electronically scanned array technology, and time delay in corporate fed arrays Includes complete design examples for placing time delay in arrays Timed Arrays: Wideband and Time Varying Antenna Arrays is written for practicing engineers and scientists in wireless communication, radar, and remote sensing as well as graduate students and professors interested in advanced antenna topics.

Simplified Design of IC Amplifiers has something for everyone involved in electronics. No matter what skill level, this book shows how to design and experiment with IC amplifiers. For experimenters, students, and serious hobbyists, this book provides sufficient information to design and build IC amplifier circuits from 'scratch'. For working engineers who design amplifier circuits or select IC amplifiers, the book provides a variety of circuit configurations to make designing easier. Provides basics for all phases of practical design Covers the most popular forms for amplifier ICs available today Provides a wealth of information on amplifier ICs and related components

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