



Allen A. Sweet

DESIGNING

**BIPOLAR TRANSISTOR
RADIO FREQUENCY
INTEGRATED CIRCUITS**

Designing Bipolar Transistor Radio Frequency Integrated Circuits Artech House Microwave Library

John W. M. Rogers, Calvin Plett



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Designing Bipolar Transistor Radio Frequency Integrated Circuits Allen A. Sweet, 2007-12-01 If you're looking for an in depth and up to date understanding bipolar transistor RFIC design this practical resource is a smart choice Unlike most books on the market that focus on GaAs MESFET or silicon CMOS process technology this unique volume is dedicated exclusively to RFIC designs based on bipolar technology Until now critical GaAs HBT and SiGe HBT process technologies have been largely neglected in reference books This book fills this gap offering you a detailed treatment of this increasingly important topic You discover a wide range of circuit topologies that are optimized for maximum performance with bipolar devices From discussions of key applications Bluetooth UWB GPS WiMax and architectures to in depth coverage of fabrication technologies and amplifier design to a look at performance tradeoffs and production costs this book arms you with complete design know how for your challenging work in the field

An Engineer's Guide to Automated Testing of High-speed Interfaces José Moreira, Hubert Werkmann, 2010 Providing a complete introduction to the state of the art in high speed digital testing with automated test equipment ATE this practical resource is the first book focus exclusively on this increasingly important topic Featuring clear examples this one stop reference covers all critical aspects of the subject from high speed digital basics ATE instrumentation for digital applications and test and measurements to production testing support instrumentation and test fixture design This in depth volume also discusses at advanced ATE topics such as multiplexing of ATE pin channels and testing of high speed bi directional interfaces with fly by approaches

Microwave Network Design Using the Scattering Matrix Janusz Dobrowolski, 2010 This authoritative resource provides you with comprehensive and detailed coverage of the wave approach to microwave network characterization analysis and design using scattering parameters For the first time in any book all aspects and approaches to wave variables and the scattering matrix are explored The book compares and contrasts voltage waves travelling waves pseudo waves and power waves and explains the differences between real scattering parameters pseudo scattering parameters and power scattering parameters You find important discussions on standard scattering matrices and wave quantities mixed mode wave variables and noise wave variables with noise wave correlation matrices Moreover the book presents clear methods for standard single ended multiport network design and noise analysis This in depth reference is packed with over 1 100 equations and numerous illustrations

Substrate Noise Coupling in Analog/RF Circuits Stephane Bronckers, Geert Van der Plas, Gerd Vandersteen, Yves Rolain, 2010 This book presents case studies to illustrate that careful modeling of the assembly characteristics and layout details is required to bring simulations and measurements into agreement Engineers learn how to use a proper combination of isolation structures and circuit techniques to make analog RF circuits more immune to substrate noise Topics include substrate noise propagation passive isolation structures noise couple in active devices measuring the coupling mechanisms in analog RF circuits prediction of the impact of substrate noise on analog RF circuits and noise

coupling in analog RF systems *Design of RF and Microwave Amplifiers and Oscillators* Pieter L. D. Abrie, 2009 This newly revised edition offers a comprehensive and current treatment of the subject and includes expanded derivations and problem sets helping to make the material even more accessible and easier to master Frequency Synthesizers Alexander Chenakin, 2011 A frequency synthesizer is an electronic system for generating any of a range of frequencies from a single fixed oscillator They are found in modern devices like radio receivers mobile phones and GPS systems This comprehensive resource offers RF and microwave engineers a thorough overview of both well established and recently developed frequency synthesizer design techniques Professionals find expert guidance on all design aspects including main architectures key building blocks and practical circuit implementation Engineers learn the development process and gain a solid understanding of how to build a synthesizer from a basic diagram to the final product Starting with a simple single loop PLL example the book progressively examines various alternatives fractional N DDS frequency offset multiloop and more OCo to achieve required performance objectives This unique volume gathers a collection of block diagrams clever circuits design recipes and other hard to find information that is usually treated as OC design secretsOCO Written in a simple yet rigorous style with numerous illustrations the book is an all in one reference for both beginner and experienced designers Klystrons, Traveling Wave Tubes, Magnetrons, Crossed-field Amplifiers, and Gyrotrons A.S. Gilmour Jr., A. S. Gilmour, 2011 Microwave tubes are vacuum electron devices used for the generation and amplification of radio frequencies in the microwave range An established technology area the use of tubes remains essential in the field today for high power applications The culmination of the authorOCO's 50 years of industry experience this authoritative resource offers you a thorough understanding of the operations and major classes of microwave tubes Minimizing the use of advanced mathematics the book places emphasis on clear qualitative explanations of phenomena This practical reference serves as an excellent introduction for newcomers to the field and offers established tube engineers a comprehensive refresher Professionals find coverage of all major tube classifications including klystrons traveling wave tubes TWTs magnetrons cross field amplifiers and gyrotrons **Radio Frequency Integrated Circuit Design** John W. M. Rogers, Calvin Plett, 2003 Focuses mainly on bipolar technology to demonstrate circuits but CMOS is included as well **Solid-state Microwave High-power Amplifiers** Franco Sechi, Marina Bujatti, 2009 This practical resource offers expert guidance on the most critical aspects of microwave power amplifier design This comprehensive book provides descriptions of all the major active devices discusses large signal characterization explains all the key circuit design procedures Moreover you gain keen insight on the link between design parameters and technological implementation helping you achieve optimal solutions with the most efficient utilization of available technologies The book covers a broad range of essential topics from requirements for high power amplifiers device models phase noise and power combiners to high efficiency amplifiers linear amplifier design bias circuits and thermal design Heterojunction Bipolar Transistors for Circuit Design Jianjun Gao, 2015-04-27 A highly comprehensive summary on

circuit related modeling techniques and parameter extraction methods for heterojunction bipolar transistors Heterojunction Bipolar Transistor HBT is one of the most important devices for microwave applications The book details the accurate device modeling for HBTs and high level IC design using HBTs Provides a valuable reference to basic modeling issues and specific semiconductor device models encountered in circuit simulators with a thorough reference list at the end of each chapter for onward learning Offers an overview on modeling techniques and parameter extraction methods for heterojunction bipolar transistors focusing on circuit simulation and design Presents electrical RF engineering related theory and tools and include equivalent circuits and their matrix descriptions noise small and large signal analysis methods

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Design of Radio-frequency and Microwave Amplifiers and Oscillators Pieter L. D. Abrie, 2009

Bipolar and MOS Analog Integrated Circuit Design Alan B. Grebene, 2003 A practical engineering book discussing the most modern and general techniques for designing analog integrated circuits which are not digital excluding computer circuits Covers the basics of the devices manufacturing technology design procedures shortcuts and analytic techniques Includes examples and illustrations of the best current practice

M.O.S. and Special-purpose Bipolar Integrated Circuits and R-F Power Transistor Circuit Design Bryan Norris, 1976

Radio Frequency Transistors Norman Dye, Helge Granberg, 2001 This newly revised edition adds two entirely new chapters one of LDMOS high power RF transistors and how they differ from bipolars and TMOS FETs etc as well as another chapter on designing high power RF amplifiers using LDMOS

Affordable Analog and Radio Frequency Integrated Circuits Design and Optimization Yang Xu, 2004

Current Trends In Heterojunction Bipolar Transistors M F Chang, 1996-01-29 Recent advances in communication digital signal processing and computational systems demand very high performance electronic circuits Heterojunction Bipolar Transistors HBTs have the potential of providing a more efficient solution to many key system requirements through intrinsic device advantages This book reviews the present status of GaAs InP and silicon based HBT technologies and their applications to digital analog microwave and mixed signal circuits and systems It represents the first major effort to cover the complete scope of the HBT technology development in the past decade starting from the fundamental device physics material growth device reliability scaling processing modeling to advanced HBT integrated circuit design for various system applications

Silicon-Germanium Heterojunction Bipolar Transistors for mm-Wave Systems: Technology, Modeling and Circuit Applications Niccolò Rinaldi, Michael Schröter, 2018-03-15 The

semiconductor industry is a fundamental building block of the new economy there is no area of modern life untouched by the progress of nanoelectronics The electronic chip is becoming an ever increasing portion of system solutions starting initially from less than 5% in the 1970 microcomputer era to more than 60% of the final cost of a mobile telephone 50% of the price of a personal computer representing nearly 100% of the functionalities and 30% of the price of a monitor in the early 2000 s Interest in utilizing the sub mm wave frequency spectrum for commercial and research applications has also been steadily increasing Such applications which constitute a diverse but sizeable future market span a large variety of areas such as health material science mass transit industrial automation communications and space exploration Silicon Germanium Heterojunction Bipolar Transistors for mm Wave Systems Technology Modeling and Circuit Applications provides an overview of results of the DOTSEVEN EU research project and as such focusses on key material developments for mm Wave Device Technology It starts with the motivation at the beginning of the project and a summary of its major achievements The subsequent chapters provide a detailed description of the obtained research results in the various areas of process development device simulation compact device modeling experimental characterization reliability sub mm wave circuit design and systems *Design and Realization of Bipolar Transistors* Peter Ashburn, 1988-08-18 Addresses new developments in the design and fabrication of bipolar transistors for high speed digital circuits Covers advances in silicon technology such as polysilicon emitters and self aligned fabrication techniques gallium arsenide technology such as extremely high performance MSI circuits resulting from the development of GaAs GaAlAs heterojunctions and new applications of bipolar transistors such as optoelectronic circuits Also deals with optimization of bipolar devices and processes for high speed digital circuits by means of a quasi analytical expression for the gate delay of an ECL logic gate Includes case studies Design of a Monolithic Microwave Integrated Circuit Mixer and Oscillator Using Heterojunction Bipolar Transistor Technology Christopher D. Stoik, 1995

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