

High Performance Regenerative Receiver Design

There have been several popular Regen projects in recent QST's and ARRL Handbooks. Look at the design process and progress; then build one—or both—of the receivers described.

By Charles Kitchin, N1TEV

Many hams have tried regenerative receivers with mixed results. Some people are quite attached to "regens," while others consider them only suitable for beginner experimentation.

I have spent several years researching this subject and have come away with a great respect for the technical knowledge possessed by the "old-timers" of the 1920s and '30s. Unfortunately, much of this knowledge has been forgotten. Many significant discoveries, such as the "throttle"-capacitor regeneration control are unknown to most modern homebrewers.

This article will show that, if properly designed, a modern regen is quite capable of direct-conversion or superheterodyne-level performance, although it does require greater operator skill. Attention to a few simple details can provide an excellent receiver for ham or general-coverage shortwave use. For beginners and veterans alike, studying, building and using regenerative circuits can add new interest, excitement and fun to the radio hobby.

A Brief History

The regenerative circuit was used in both commercial and ham receivers in the 1920s until the early 1930s. It was the standard ham receiver during this period, and a great deal of experimental work was done to optimize its performance. As the great depression slowly ended, the use of the regen de-

clined, because many people could then afford to buy commercial superheterodyne receivers.

Hams continued to use regens, usually homebrewed, through the rest of the 1930s. Although better components were then available, regens of the 1940s and '50s had been reduced to introductory sets for beginners—with generally poor performance.

By the 1960s and '70s, regenerative circuits had been replaced by the now popular direct-conversion receiver.

Regeneration Basics: What's Really Happening Here?

Fig 1 shows the basic regenerative circuit, discovered by Edwin Howard Armstrong¹ in 1914.

Fig 2 shows a modern equivalent

¹Notes appear on page 36.

High Performance Regenerative Receiver Design

Ivan P. Kaminow, Thomas L. Koch



High Performance Regenerative Receiver Design:

Modern Communications Receiver Design and Technology Cornell Drentea, 2010 This comprehensive sourcebook thoroughly explores the state of the art in communications receivers providing detailed practical guidance for constructing an actual high dynamic range receiver from system design to packaging You also find clear explanations of the technical underpinnings that you need to understand for your work in the field This cutting edge reference presents the latest information on modern superheterodyne receivers dynamic range mixers oscillators complex coherent synthesizers automatic gain control DSP and software radios You find in depth discussions on system design including coverage of all pertinent data and tools Moreover the book offers you a solid understanding of packaging and mechanical considerations as well as a look at tomorrow's receiver technology including new Bragg cell applications for ultra wideband electronic warfare receivers This one stop resource is packed with over 300 illustrations that support critical topics throughout

Design of CMOS Millimeter-Wave and Terahertz Integrated Circuits with Metamaterials Hao Yu, Yang Shang, 2015-10-19 This book shows that with the use of metamaterials one can have coherent THz signal generation amplification transmission and detection for phase arrayed CMOS transistors with significantly improved performance Offering detailed coverage from device to system the book describes the design and application of metamaterials in actual CMOS integrated circuits includes real circuit examples and chip demonstrations with measurement results and also evaluates system performance after CMOS based system on chip integration The book reflects the latest research progress and provides a state of the art reference on CMOS based metamaterial devices and mm wave and THz systems

Chronological Developments of Wireless Radio Systems before World War II Vinayak Laxman Patil, 2021-02-15 This comprehensive and authoritative volume traces the history of research leading to the development of the wireless radio systems It discusses the methods adopted by a large number of inventors and the results they obtained to provide perspective on how historical methods and events can be a source of inspiration for future research This book will be of interest to researchers and students in telecommunications engineering as well as to teachers of history of science and technology

Analog Circuit Design Johan Huijsing, Michiel Steyaert, Arthur H.M. van Roermund, 2013-03-20 Analog Circuit Design contains the contribution of 18 experts from the 13th International Workshop on Advances in Analog Circuit Design It is number 13 in the successful series of Analog Circuit Design It provides 18 excellent overviews of analog circuit design in Sensor and Actuator Interfaces Integrated High Voltage Electronics and Power Management and Low Power and High Resolution ADC's Analog Circuit Design is an essential reference source for analog circuits designers and researchers wishing to keep abreast with the latest developments in the field The tutorial coverage also makes it suitable for use in an advanced design course

The ARRL Handbook for Radio Communications, 2005

Radio Receiver Design Robert Dixon, 2024-11-01 Provides a fundamental understanding of current as well as future concepts and techniques essential for

systematically defining and manufacturing a receiver that is flexible yet functional in today's world. An excellent introduction to communications and the role of receivers in conveying information. Radio Receivers for Systems of Fixed and Mobile Communications Vasilii V. Logvinov, Sergey M. Smolskiy, 2022-05-13. The textbook acquaints the reader with the architecture of receivers of analog and digital radio systems, helps to study the stages of designing a modern radio receiver and reveals the reasons and methods for its effective operation in networks for various purposes. Particular attention is paid to the methods of generating and processing signals in the receivers of digital systems with multiple access, which make it possible to provide data transfer rates close to the maximum possible according to Shannon. As a textbook for students studying methods of optimal signal reception, the book will also be useful to specialists in the field of telecommunications involved in the development of radio receivers. The book shows how the development of theoretical circuitry and integrated technologies led to the active introduction of algorithmic methods for signal processing, changed both the design of receivers and the methods of forming the information flow in free space MIMO beamforming. The creation of a global 5G network based on heterogeneous networks puts forward new requirements for the architecture of receivers, which are determined by the requirements to achieve high data rates, low time delays or use in networks with coordinated multipoint transmission and reception CoMP. To consolidate the knowledge gained, the book includes a complete set of materials for online classes, including questions and answers, a guide to solving problems for each chapter, and computer modeling units of receivers in the MicroCAP environment based on preliminary calculations. American Radio Relay League Handbook for Radio Communications, 2007. *Communications Receivers, Fourth Edition* Ulrich L. Rohde, Jerry C. Whitaker, 2017-03-10. State of the art communications receiver technologies and design strategies. This thoroughly updated guide offers comprehensive explanations of the science behind today's radio receivers along with practical guidance on designing, constructing, and maintaining real-world communications systems. You will explore system planning, antennas, and antenna coupling, amplifiers, and gain control filters, mixers, demodulation, digital communication, and the latest software-defined radio (SDR) technology. Written by a team of telecommunication experts, *Communications Receivers: Principles and Design, Fourth Edition* features technical illustrations, schematic diagrams, and detailed examples. Coverage includes: Basic radio considerations, Radio receiver characteristics, Receiver system planning, Receiver implementation considerations, RF and baseband techniques for Software Defined Radios, Transceiver SDR considerations, Antennas and antenna coupling, Mixers, Frequency sources, and control, Ancillary receiver circuits, Performance measurement. **Wake-up Receiver Based Ultra-Low-Power WBAN** Maarten Lont, Dusan Milosevic, Arthur van der Roermund, 2014-05-28. This book presents the cross-layer design and optimization of wake-up receivers for wireless body area networks (WBAN) with an emphasis on low-power circuit design. This includes the analysis of medium access control (MAC) protocols, mixer-first receiver design, and implications of receiver impairments on wideband frequency shift keying (FSK) receivers. Readers will learn how the overall power consumption is

reduced by exploiting the characteristics of body area networks Theoretical models presented are validated with two different receiver implementations in 90nm and 40nm CMOS technology *Optical Fiber Telecommunications III* Ivan P. Kaminow, Thomas L. Koch, 1997 **Optical Fiber Telecommunications IIIB** Thomas L. Koch, 2012-12-02 Updated to include the latest information on light wave technology Optical Fiber Telecommunication III Volumes A B are invaluable for scientists students and engineers in the modern telecommunications industry This two volume set includes the most current research available in optical fiber telecommunications light wave technology and photonics optoelectronics The authors cover important background concepts such as SONET coding device technology and WOM components as well as projecting the trends in telecommunications for the 21st century One of the hottest subjects of today s technology Includes the most up to date research available in optical fiber telecommunications Projects the trends in telecommunications for the 21st century

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biochips to brain computer interfaces and beyond The book also examines some of the most advanced algorithms and data processing in the field Addressing the latest challenges and solutions related to the medical needs electronic design advanced materials chemistry wireless body sensor networks and technologies suitable for wireless medical devices the text Investigates the technological and manufacturing issues associated with the development of wireless medical devices Introduces the techniques and strategies that can optimize the performances of algorithms for medical applications and provide robust results in terms of data reliability Includes a variety of practical examples and case studies relevant to engineers medical doctors chemists and biologists Wireless Medical Systems and Algorithms Design and Applications not only highlights new technologies for the continuous surveillance of patient health conditions but also shows how disciplines such as chemistry biology engineering and medicine are merging to produce a new class of smart devices capable of managing and monitoring a wide range of cognitive and physical disabilities **Wireless World** ,1925 Energy ,1983

Energy: a Continuing Bibliography with Indexes ,1981

Extending Moore's Law through Advanced

Semiconductor Design and Processing Techniques Wynand Lambrechts,Saurabh Sinha,Jassem Ahmed Abdallah,Jaco Prinsloo,2018-09-13 This book provides a methodological understanding of the theoretical and technical limitations to the longevity of Moore s law The book presents research on factors that have significant impact on the future of Moore s law and those factors believed to sustain the trend of the last five decades Research findings show that boundaries of Moore s law primarily include physical restrictions of scaling electronic components to levels beyond that of ordinary manufacturing principles and approaching the bounds of physics The research presented in this book provides essential background and knowledge to grasp the following principles Traditional and modern photolithography the primary limiting factor of Moore s law Innovations in semiconductor manufacturing that makes current generation CMOS processing possible Multi disciplinary technologies that could drive Moore s law forward significantly Design principles for microelectronic circuits and components that take advantage of technology miniaturization The semiconductor industry economic market trends and technical driving factors The complexity and cost associated with technology scaling have compelled researchers in the disciplines of engineering and physics to optimize previous generation nodes to improve system on chip performance This is especially relevant to participate in the increased attractiveness of the Internet of Things IoT This book additionally provides scholarly and practical examples of principles in microelectronic circuit design and layout to mitigate technology limits of previous generation nodes Readers are encouraged to intellectually apply the knowledge derived from this book to further research and innovation in prolonging Moore s law and associated principles **The Wireless Age** ,1921

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Table of Contents High Performance Regenerative Receiver Design

1. Understanding the eBook High Performance Regenerative Receiver Design
 - The Rise of Digital Reading High Performance Regenerative Receiver Design
 - Advantages of eBooks Over Traditional Books
2. Identifying High Performance Regenerative Receiver Design
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an High Performance Regenerative Receiver Design
 - User-Friendly Interface
4. Exploring eBook Recommendations from High Performance Regenerative Receiver Design
 - Personalized Recommendations
 - High Performance Regenerative Receiver Design User Reviews and Ratings
 - High Performance Regenerative Receiver Design and Bestseller Lists
5. Accessing High Performance Regenerative Receiver Design Free and Paid eBooks
 - High Performance Regenerative Receiver Design Public Domain eBooks
 - High Performance Regenerative Receiver Design eBook Subscription Services

- High Performance Regenerative Receiver Design Budget-Friendly Options
- 6. Navigating High Performance Regenerative Receiver Design eBook Formats
 - ePub, PDF, MOBI, and More
 - High Performance Regenerative Receiver Design Compatibility with Devices
 - High Performance Regenerative Receiver Design Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of High Performance Regenerative Receiver Design
 - Highlighting and Note-Taking High Performance Regenerative Receiver Design
 - Interactive Elements High Performance Regenerative Receiver Design
- 8. Staying Engaged with High Performance Regenerative Receiver Design
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers High Performance Regenerative Receiver Design
- 9. Balancing eBooks and Physical Books High Performance Regenerative Receiver Design
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection High Performance Regenerative Receiver Design
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine High Performance Regenerative Receiver Design
 - Setting Reading Goals High Performance Regenerative Receiver Design
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High Performance Regenerative Receiver Design
 - Fact-Checking eBook Content of High Performance Regenerative Receiver Design
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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