3. Balanced Modulator

Aim:

- To construct and properly adjust a balanced modulator and study its operation.
- To observe that the output is a double sideband with a suppressed carrier signal.
- To adjust it for optimum carrier suppression.
- To verify that the output audio level directly affects the double side-band output amplitude.
- To observe that the output is maximum with zero audio input.
- To measure carrier only output and the peak side- band output and to calculate the carrier suppression.

Equipment Required:

Analog communication kit, CRO connecting wires.

Component Required:

- 1. IC'S:1496- (1no)
- Resistors:100Ω-(1no),820Ω-(1no),1kΩ-(1no)1.2kΩ-(1no),2.7kΩ-(1no),10kΩ-(3nos),47kΩ-(1nos),50kΩ-POT
- Capacitors: 1μF-(1no),22μF-(1no),100μF-(2nos)

Theory:

One circuit that lends itself extremely well to balanced modulator application is the differential amplifier. A simplified diagram of a differential amplifier is shown in figure 1.

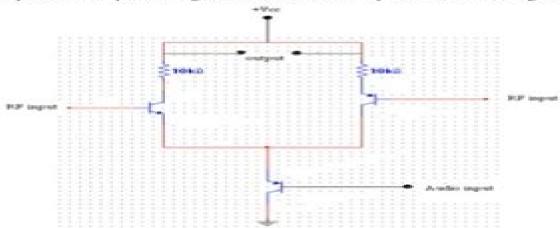


FIG 1: A Differential amplifier used as a balanced modulator

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Introduction to Analog and Digital Communication M A Bhagyaveni, R Kalidoss, K S Vishvaksenan, 2024-10-21 This book primarily focuses on the design of analog and digital communication systems and has been structured to cater to the second year engineering undergraduate students of Computer Science Information Technology Electrical Engineering and Electronics and Communication departments For better understanding the basics of analog communication systems are outlined before the digital communication systems section The content of this book is also suitable for the students with little knowledge in communication systems The book is divided into five modules for efficient presentation and it provides numerous examples and illustrations for the detailed understanding of the subject in a thorough manner Digital and **Analog Communication Systems** Leon W. Couch, 2001 Exceptionally up to date this book provides a broad introduction to basic analog and digital principles and their application to the design and analysis of real world communication systems It provides readers with a working knowledge of how to use both classical mathematical and personal computer methods to analyze design and simulate modern communication systems MATLAB is integrated throughout Study aid examples and homework problems are included many of which require solution via a personal computer MATLAB illustrative examples and plots are included Balanced coverage of both analog and digital communication systems with an emphasis on the design of digital communication systems Case studies of modern communication systems are provided Over 500 problems provided For Modern Digital And Analog Communication Lathi, 2009-10-22 Professor Lathi introduces modern electrical engineers digital and analog communication systems without using probabilistic concepts with the intention that students will be ready to master probabilistic concepts as they progress through the book

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Table of Contents Csun Analog Communication Lab Syllabus With Manual

- 1. Understanding the eBook Csun Analog Communication Lab Syllabus With Manual
 - The Rise of Digital Reading Csun Analog Communication Lab Syllabus With Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Csun Analog Communication Lab Syllabus With Manual
 - 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 Csun Analog Communication Lab Syllabus With Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Csun Analog Communication Lab Syllabus With Manual
 - Personalized Recommendations
 - Csun Analog Communication Lab Syllabus With Manual User Reviews and Ratings
 - Csun Analog Communication Lab Syllabus With Manual and Bestseller Lists
- 5. Accessing Csun Analog Communication Lab Syllabus With Manual Free and Paid eBooks

- Csun Analog Communication Lab Syllabus With Manual Public Domain eBooks
- Csun Analog Communication Lab Syllabus With Manual eBook Subscription Services
- Csun Analog Communication Lab Syllabus With Manual Budget-Friendly Options
- 6. Navigating Csun Analog Communication Lab Syllabus With Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Csun Analog Communication Lab Syllabus With Manual Compatibility with Devices
 - Csun Analog Communication Lab Syllabus With Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Csun Analog Communication Lab Syllabus With Manual
 - Highlighting and Note-Taking Csun Analog Communication Lab Syllabus With Manual
 - Interactive Elements Csun Analog Communication Lab Syllabus With Manual
- 8. Staying Engaged with Csun Analog Communication Lab Syllabus With Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Csun Analog Communication Lab Syllabus With Manual
- 9. Balancing eBooks and Physical Books Csun Analog Communication Lab Syllabus With Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Csun Analog Communication Lab Syllabus With Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Csun Analog Communication Lab Syllabus With Manual
 - Setting Reading Goals Csun Analog Communication Lab Syllabus With Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Csun Analog Communication Lab Syllabus With Manual
 - Fact-Checking eBook Content of Csun Analog Communication Lab Syllabus With Manual
 - 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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