

3. Balanced Modulator

Aim:

1. To construct and properly adjust a balanced modulator and study its operation.
2. To observe that the output is a double sideband with a suppressed carrier signal.
3. To adjust it for optimum carrier suppression.
4. To verify that the output audio level directly affects the double side-band output amplitude.
5. To observe that the output is maximum with zero audio input.
6. 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)
2. Resistors: 100 Ω - (1no), 820 Ω - (1no), 1k Ω - (1no) 1.2k Ω - (1no), 2.7k Ω - (1no), 10k Ω - (3nos), 47k Ω - (1nos), 50k Ω -POT
3. Capacitors: 1 μ F- (1no), 22 μ F- (1no), 100 μ F- (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.

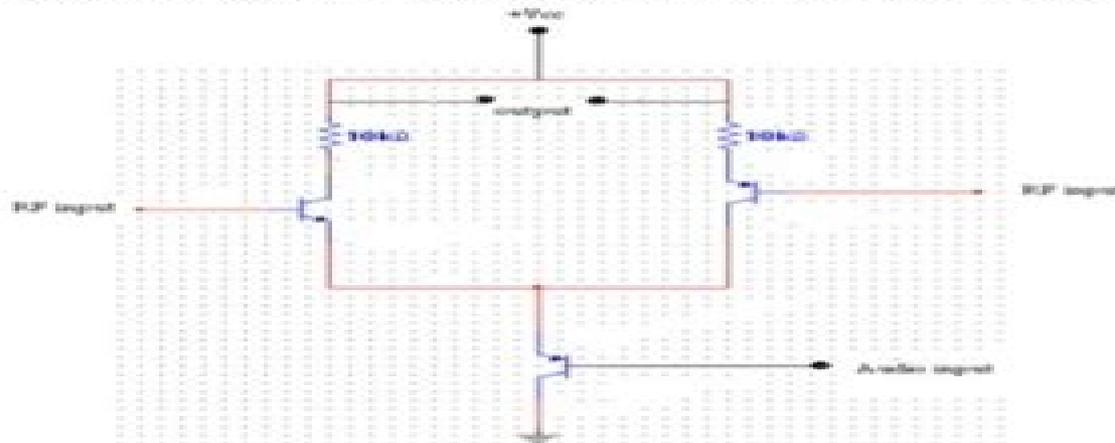


FIG 1: A Differential amplifier used as a balanced modulator

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B. P. Lathi



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Solutions Manual for Modern Digital and Analog Communication Systems Fourth Edit B. P. Lathi, 2009-03-08

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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 electrical engineers **Introduction to Analog and Digital**

Communication M. A. Bhagyaveni, R. Kalidoss, K. S. Vishvaksenan, 2022-09-01 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 *Modern Digital and Analog*

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Introduction to Communication Systems Upamanyu Madhow, 2014 Showcasing the essential principles behind modern

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