#### 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.

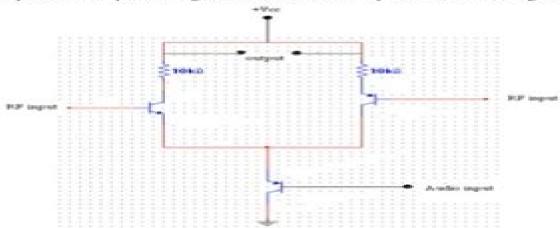


FIG 1: A Differential amplifier used as a balanced modulator

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**Julia Schneider** 

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**Solutions Manual for Lathi** B. P. Lathi, Phong Vu Dao, Yuzon Hao, Borong Wang, 1989 Analog Communications, Volumes 1, 2 and 3: Instructor's Guide Lab-Volt (Québec) Ltd,1987 An Introduction to Analog and Digital Communications Simon Haykin, Michael Moher, 2012-04-13 The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information bearing signals While it covers analog communications the emphasis is placed on digital technology. It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system Readers will next learn about electrical noise and then progress to multiplexing and multiple access techniques <u>ELECTRONICS LAB MANUAL (VOLUME 2)</u> NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied

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