

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: 100Ω -(1no), 820Ω -(1no), $1k\Omega$ -(1no), $1.2k\Omega$ -(1no), $2.7k\Omega$ -(1no), $10k\Omega$ -(3nos), $47k\Omega$ -(1no), $50k\Omega$ -POT
3. Capacitors: $1\mu F$ -(1no), $22\mu F$ -(1no), $100\mu F$ -(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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Julia Schneider



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Human Factors Engineering Bibliographic Series ,1960 **Proceedings** American Society for Engineering Education. Conference,1991 **Scientific and Technical Aerospace Reports** ,1968 *Subject Guide to Books in Print* ,1971 *Proceedings* ,2003 Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian,Adarsh K. S.,Vinod J. Thomas,2016-02-12 Paperbound Books in Print ,1984 Books in Print Supplement ,1973 **Paperbound Books in Print 1995** Reed Reference Publishing,R5ference Reed,1995-12 *Solutions Manual for Modern Digital and Analog Communication Systems Fourth Edit* B. P. Lathi,2009-03-08 **Forthcoming Books** Rose Army,1994-04 Who Knows, and What, Among Authorities, Experts, and the Specially Informed ,1954 **Analog Communications** Kasturi Vasudevan,2020-08-14 This textbook covers the fundamental concepts of analog communications with a Q A approach It is a comprehensive compilation of numerical problems and solutions covering all the topics in analog communications Richly illustrated with figures this book covers the important topics of signals and systems random variables and random processes amplitude modulation frequency modulation pulse code modulation and noise in analog modulation It has numerical questions and their solutions clearing the concepts of Fourier transform Hilbert transform modulation synchronization signal to noise ratio analysis and many more All the solutions have step by step approach for easy understanding This book will be of great interest to the students of electronics and electrical communications engineering

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 ELECTRONICS LAB MANUAL (VOLUME 2) 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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KEY FEATURES Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices

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