

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.

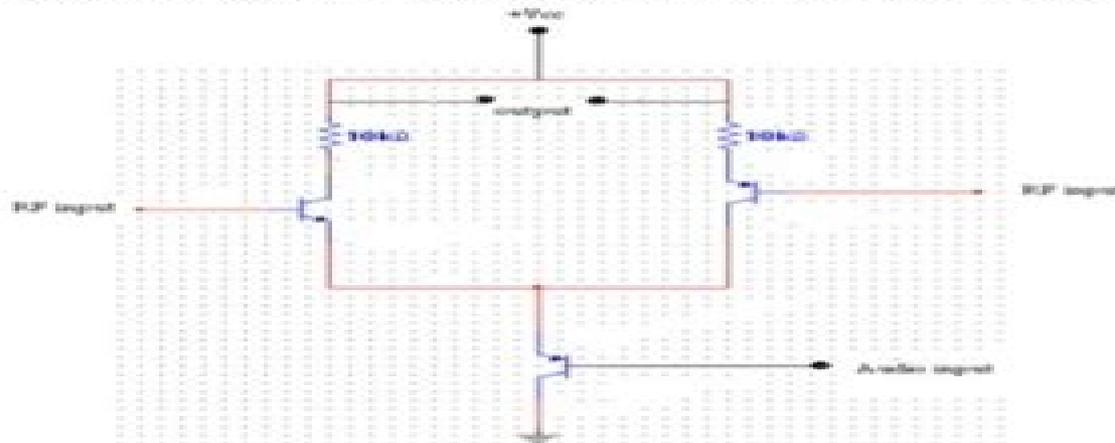


FIG 1: A Differential amplifier used as a balanced modulator

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K. Chandrashekhar



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Proceedings ,2003 Analog Communications, Volumes 1, 2 and 3 : Instructor's Guide Lab-Volt (Québec) Ltd,1987

Solutions Manual for Lathi B. P. Lathi,Phong Vu Dao,Yuzon Hao,Borong Wang,1989 **Paperbound Books in Print** ,1984 **Books in Print Supplement** ,1973 *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

Abstracts of Science and Technology in Japan ,1992

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 Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students

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

TARGET AUDIENCE B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering

Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian,Adarsh K. S.,Vinod J. Thomas,2016-02-12 **Paperbound Books in Print 1995** Reed Reference

Publishing, Reference Reed, 1995-12 **Who Knows, and What, Among Authorities, Experts, and the Specially Informed** ,1954 *Forthcoming Books* Rose Arny, 1994-04 **Analog communication lab + LIC lab** K. Chandrashekar, 2012 *Principles of Digital and Analog Communications* J. D. Gibson, 1993 *ANALOG COMMUNICATION* TOMAR, GEETAM SINGH, BAGWARI, ASHISH, 2016-02-25 This book carries a holistic approach on the analog communication with all the basic concepts pertaining to the subject described in it The text provides an incisive insight into the subject via simple elegant and explicit presentation Organised in ten chapters the book dexterously assimilates the various terms and techniques used in analog communication to enhance a broader understanding of the concepts and their applications Commencing with the basic introduction the book goes on to provide description on analog amplitude modulation single sideband modulation analog angle modulation pulse modulation digital transmission of analog signals and multiplexing Finally it discusses about noise random signal and processes information theory and coding and communication detectors and filters The background of each topic in the book is prepared sensibly by providing suitable illustrations numerical examples detailed explanation of each step given thereby making the understanding of complicated derivations easier This well structured book is specifically written for the undergraduate students of electronics and communication engineering and postgraduate students of electronics

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