

## **LAB - 4**

### **PRE –EMPHASIS AND DE-EMPHASIS CIRCUITS**

#### **4.1 OBJECTIVE**

In this lab, you will learn how the characteristics of Pre-emphasis and De-emphasis differ from each other.

#### **4.2 HARDWARE REQUIRED**

Transistor, AFO, IC NE566, Resistors, Capacitor, CRO, RPS.

#### **4.3 PREPARATION (PRE-LAB)**

Do the complete revision of Pre-emphasis and De-emphasis theory.

#### **4.4 THEORY**

##### **4.4.1 Pre-emphasis**

The circuits are the transmitting side of the frequency modulator. It is used to increase the gain of the higher frequency component as the input signal frequency increased, the impedance of the collector voltage increase. If the signal frequency is lesser then the impedance decrease which increase the collector current and hence decrease the voltage.

##### **4.4.2 De-emphasis**

The circuit is placed at the receiving side. It acts as allow pass filter. The boosting gain for higher frequency signal in the transmitting side is done by the pre-emphasis circuit is filtered to the same value by the low pass filter. The cut off frequency is given by the formula

$$f_c = 1/(2\pi RC) \quad (4-1)$$

Where  $R = 2\pi f_c L$

# Pre Emphasis Circuits Lab Manual

**Anne Fischer Lent**



## **Pre Emphasis Circuits Lab Manual:**

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 **Practical Applications Circuits Handbook** Anne Fischer Lent,2013-07-19 Practical Applications Circuits Handbook focuses on the various circuit designs and applications collected from manufacturer data This book describes the overall design of each circuit and provides background information on its concepts and components Organized into 23 chapters this book starts with an overview of the various types and general designs of several audio amplifiers including high power audio amplifier gain controlled stereo amplifier and ceramic pickup amplifier This text then explores several automotive circuits and explains their practical applications including the speed warning device auto burglar alarm tachometer automobile voltage regulator and car radio Other chapters describe the wind powered battery charger which can be used as a remote source of power where wind energy is abundant This book discusses as well the general design of automatic light control wherein the control turns on a lamp when the input to the photodiode falls below a particular value This book is a valuable resource for engineers students and hobbyists Study Guide and Reference Material for Commercial Radio Operator Examinations United States. Federal Communications Commission,1955

**Essentials of RF Front-end Design and Testing** Ibrahim A. Haroun,2023-11-29 Essentials of RF Front end Design and Testing Highly comprehensive text delivering the RF system essentials required to understand develop and evaluate the performance of RF wireless systems Essentials of RF Front end Design and Testing A Practical Guide for Wireless Systems is a system oriented book which provides several wireless communication disciplines in one volume The book covers a wide

range of topics including antenna fundamentals phased array antenna and MIMOs that are crucial for the latest 5G mmWave and future 6G wireless systems high frequency transmission lines RF building blocks that are necessary to understand how various RF subsystems are interrelated and implemented in wireless systems and test setups for conducted and Over The Air OTA transmitter and receiver tests The text enables readers to understand develop and evaluate the performance of RF wireless systems The text focuses on RF system performance and testing rather than mathematical proofs which are available in the provided references Although the book is intended for testing and building RF system prototypes it has the sufficient theoretical background needed for RF systems design and testing Each chapter includes learning objectives review questions and references Sample topics covered in the book include An overview of cellular phone systems 5G NR wireless technology MIMO technology terahertz communications for 6G wireless technology and modulation and multiplexing Analog and digital modulation techniques including AM SSB FM FSK PSK QAM SSFH DSSS and OFDM High frequency transmission lines S parameters low noise amplifier RF mixers filters power amplifiers frequency synthesizers circulators isolators directional couplers RF switches and RF phase shifters Antenna basics including antenna gain radiation pattern input impedance polarization and antenna noise temperature microstrip antenna antenna array propagation path loss compact antenna test range CATR and test setups for antenna measurements Basics of MIMO and beamforming technology including analog digital and hybrid beamforming Test setups for characterizing the key RF performance parameters of 5G New Radio base station transmitters and receivers Essentials of RF Front end Design and Testing A Practical Guide for Wireless Systems is a highly comprehensive resource on the subject and is intended for graduate engineers and technologists involved in designing developing and testing wireless systems along with undergraduate graduate students enhancing their learning experience of RF subsystems systems characterization

*The ARRL Extra Class License Manual for Ham Radio* H. Ward Silver, 2008 Pass the 50 question Extra Class test all the exam questions with answer key for use beginning July 1 2008 to June 30 2012 detailed explanations for all questions including FCC rules Cover

**RF Design Guide** Peter Vizmuller, 1995 Gain fast access to design information required for any RF communication project using high frequency circuits and systems with this bestseller It contains measurement methods system calculations statistical procedures and actual circuit and measurement examples that help you shorten design cycles improve quality and reduce design risks Augmented with 400 equations and 210 figures the book is an ideal reference for product designers and consultants in the RF and wireless communications industry and an outstanding learning tool for classroom use

**Practical Guide to Electronic Amplifiers** John D. Lenk, 1991

**Illustrated Guide to Practical Solid State Circuits-- with Experiments and Projects** Robert C. Genn, 1983

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This book delves into Pre Emphasis Circuits Lab Manual. Pre Emphasis Circuits Lab Manual is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Pre Emphasis Circuits Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 3: Pre Emphasis Circuits Lab Manual in Everyday Life
    - Chapter 4: Pre Emphasis Circuits Lab Manual in Specific Contexts
    - Chapter 5: Conclusion
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