

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

Milton Kaufman



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 **Radio Operator's License Q and A Manual** Milton Kaufman, 1989 Prepare for the FCC licensing exam This classic bestseller is a complete guide to radio communications Includes updated FCC rules and regulation provides sample test questions offers a practice licensing exam with typical multiple choice questions Radio Operator's License Q & A Manual Milton Kaufman, 1985 The ARRL Extra Class License Manual for Ham Radio H. Ward Silver, 2008 Pass the 50 question Extra

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Practical Guide to Electronic Amplifiers John D. Lenk, 1991 *Federal Register* , 1963-12 **The Radio Manual**

George Edward Sterling, Robert B. Monroe, 1950 **Audio Technician's Bench Manual** John Earl, 1972 *Principles of Communication Engineering* A.K. Chhabra, 2006 The first four chapters of the text describe different types of signals modulation and demodulation of these signals various transmission channels and noise encountered by the signals during propagation from sender to receiver end Apart from this this part of the book also deals with different forms of line communication systems A brief introduction of information theory is also given at the end of the text so that the students become familiar with this aspect of communication systems **Manual of Analogue Sound Restoration Techniques** Peter Copeland, 2008 **The Routledge Guide to Music Technology** Thom Holmes, 2013-10-18 First published in 2006 This guide is an A to Z trade reference aimed at music students technophiles and audio video computer users The world of music technology has exploded over the last decades thanks to introductions of new digital formats At the same time there has been a renaissance in analog high fidelity equipment and resurgent interest in turntables long playing records and vintage stereo systems Music students collectors and consumers will appreciate the availability of a guide to all things musical in the technological universe **Practical Recording Techniques** Bruce Bartlett, Jenny Bartlett, 1998 This hands on practical guide is for beginning and intermediate recording engineers producers musicians and radio enthusiasts In a step by step easy to read format the book prepares the reader for work in a home studio a small professional studio or an on location recording session Illustrated Guide to Practical Solid State Circuits-- with Experiments and Projects Robert C. Genn, 1983 **Guide to Audio Reproduction** David Fidelman, 1953 *Sigma-Delta Converters: Practical Design Guide* Jose M. de la Rosa, 2018-11-05 Thoroughly revised and expanded to help readers systematically increase their knowledge and insight about Sigma Delta Modulators Sigma Delta Modulators SDMs have become one of the best choices for the implementation of analog digital interfaces of electronic systems integrated in CMOS technologies Compared to other kinds of Analog to Digital Converters ADCs Ms cover one of the widest conversion regions of the resolution versus bandwidth plane being the most efficient solution to digitize signals in an increasingly number of applications which span from high resolution low bandwidth digital audio sensor interfaces and instrumentation to ultra low power biomedical systems and medium resolution broadband wireless communications Following the spirit of its first edition Sigma Delta Converters Practical Design Guide 2nd Edition takes a comprehensive look at SDMs their diverse types of architectures circuit techniques analysis synthesis methods and CAD tools as well as their practical design considerations It compiles and updates the current research reported on the topic and explains the multiple trade offs involved in the whole design flow of Sigma Delta Modulators from specifications to chip implementation and characterization The book follows a top down approach in order to provide readers with the necessary understanding about recent advances trends and challenges in state of the art Ms It makes more emphasis on two key points which were not treated so deeply in the first edition It includes a more detailed explanation of Ms implemented using Continuous Time CT circuits going from system level synthesis to practical circuit

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