

- C. RC coupled amplifier analysis
 - D. Bode plots
 - E. Miller effect
 - F. Gain-bandwidth product
 - G. DC amplifiers
 - H. Amplifier pairs: Darlington and emitter-coupled amplifiers
- III. Feedback Circuits
- A. Principles of feedback
 - B. Effects of feedback: noise, gain, frequency response, impedance
 - C. Types of feedback: voltage, and current.
 - D. Single stage voltage feedback
 - E. Negative feedback
- V. Sinusoidal Feedback Oscillators
- A. General operating criteria
 - B. Phase shift oscillators
 - C. Wien bridge oscillators
 - D. Crystal-controlled oscillators
 - E. Maximum frequency oscillators
- VI. Special Function ICs
- A. 555 timer
 - B. LM 317 voltage regulator
 - C. LM 318 Operational amplifier
 - D. LM 566 Voltage controlled oscillator
 - E. LM 565 Phase locked loop
- VII. Filter Circuits
- A. Passive
 - B. Active
- VIII. Operations Amplifiers
- A. Op amp operation
 - B. Differential amplifier
 - C. Inverting amplifier
 - D. Non-inverting amplifier
- IX. Voltage Regulators
- A. Voltage regulator concepts
 - B. Series voltage regulator
 - C. Shunt voltage regulator
 - D. IC voltage regulator
- X. Amplifier Frequency Response

- A. Gain and frequency measurements
- B. Low- and high-frequency response
- C. Op amp frequency response
- D. Multistage amplifiers

REQUIRED TEXTBOOKS AND MATERIALS:

Paynter, Robert. Introductory Electronic Devices and Circuits, Prentice Hall.

Paynter, Robert. Lab Manual for Introductory Electronic Devices and Circuits, Prentice Hall.

STATEMENT FOR STUDENTS WITH DISABILITIES:

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