

# EC 2208 ELECTRONIC CIRCUITS LAB I

## Syllabus - Anna University - Regulation 2008

### EC 2208 ELECTRONIC CIRCUITS LAB I L T P C

(Common to ECE & Bio Medical Engineering) 0 0 3 2

Expt No.1 Fixed Bias amplifier circuit using BJT

1. Waveforms at input and output without bias.
2. Determination of bias resistance to locate Q-point at center of load line.
4. Plot the frequency response & Determination of Gain Bandwidth Product

Expt No.2 Design and construct BJT Common Emitter Amplifier using voltage

divider bias (self-bias) with and without bypassed emitter resistor.

2. Plot the frequency response & Determination of Gain Bandwidth Product

Expt No.3 Design and construct BJT Common Collector Amplifier using voltage

divider bias (self-bias).

2. Plot the frequency response & Determination of Gain Bandwidth Product

Expt No.4 Darlington Amplifier using BJT.

1. Measurement of gain and input resistance. Comparison with calculated values.

2. Plot the frequency response & Determination of Gain Bandwidth Product

Expt No.5 Source follower with Bootstrapped gate resistance

1. Measurement of gain, input resistance and output resistance with and without

Bootstrapping. Comparison with calculated values.

Expt No.6 Differential amplifier using BJT

Expt No.7 Class A Power Amplifier

- 1.Observation of output waveform.
- 2.Measurement of maximum power output.
- 3.Determination of efficiency.
- 4.Comparison with calculated values.

Expt No.8 Class B Complementary symmetry power amplifier

- 1.Observation of the output waveform with crossover Distortion.
- 2.Modification of the circuit to avoid crossover distortion.
- 3.Measurement of maximum power output.
- 4.Determination of efficiency.

5.Comparison with calculated values.

Expt No.9 Power Supply circuit - Half wave rectifier with simple capacitor filter.

# Ec2208 Lab Manual

**AW Chickering**



## **Ec2208 Lab Manual:**

**Air Quality Assessment and Management** Dr Owen Harrop, 2018-09-03 Air Quality Assessment and Management A Practical Guide describes the techniques available for an assessment while detailing the concepts and methodologies involved. It reviews the principles of air quality management, primary sources of air pollution, impact of emissions on human health, flora and fauna, scoping of air quality impacts, baseline monitoring, impact prediction, impact significance, and pollution mitigation and control. Emphasis will be placed on the practical side of AQA with numerous international case studies and exercises to aid the reader in their understanding of concepts and applications. **Continuing Education**, 1973

Electronic Design Text and Lab Manual Discovery Press, 2005-01-01      Flinn STEM Design Challenge Lab Manual Flinn Scientific, 2017      **Computer Interfacing Lab Manual** Ziad Mahammod Al-Asmar, 2010

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