

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

Flinn Scientific



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