Section F
Power Amplifiers and Power Supplies
(Chapter 8 of your text)

Section F1: Introduction & Goals

An amplification system may consist of several stages created by one or more of the single-stage amplifier configurations we have been studying. Many times, the last stage of this system is called the power amplifier. The purpose of the power amplifier is to deliver a maximum undistorted symmetrical output to a low-resistance load.

Upon completion of this section, our goals are for you to be familiar with:

- the characteristics of the various classifications of power amplifiers;
- designing the bias circuitry for Class A, B, AB, and C operation;
- the various coupling techniques used;
- analysis and design of Zener regulated power supplies; and
- the design of
  - a complementary symmetry diode compensated power amplifier circuit;
  - a Darlington circuit; and
  - regulated power supplies using discrete components.