

Designing Audio Power Amplifiers Chapter Listing

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Chapter Listing

Part 1: Audio Power Amplifier Basics

- 1. Introduction**
- 2. Power Amplifier Basics**
- 3. Power Amplifier Design Evolution**
- 4. Building an Amplifier**
- 5. Noise**
- 6. Negative Feedback Compensation and Slew Rate**
- 7. Amplifier Classes, Output Stages and Efficiency**
- 8. Summary of Amplifier Design Considerations**

Part 2: Advanced Power Amplifier Design

- 9. Input and VAS Circuits**
- 10. DC Servos**
- 11. Advanced Forms of Feedback Compensation**
- 12. Output Stage Design and Crossover Distortion**
- 13. Output Stages II**
- 14. MOSFET Power Amplifiers**
- 15. Error Correction**

16. Other Sources of Distortion

Part 3: Real World Design Considerations

17. Output Stage Thermal Design and Stability

18. Safe Area and Short Circuit Protection

19. Power Supplies and Grounding

20. Switching Power Supplies

21. Clipping Control and Civilized Amplifier Behavior

22. Interfacing the Real World

Part 4: Simulation and Measurement

23. SPICE Simulation

24. SPICE Models and Libraries

25. Audio Instrumentation

26. Distortion and its Measurement

27. Other Amplifier Tests

Part 5: Topics in Amplifier Design

28. The Negative Feedback Controversy

29. Amplifiers without Negative Feedback

30. Balanced and Bridged Amplifiers

31. Integrated Circuit Power Amplifiers and Drivers

32. Professional Power Amplifiers

Part 6: Class D Audio Amplifiers

33. Class D Audio Amplifiers

34. Class D Design Issues

35. Alternative Class D Modulators

36. Class D Measurement, Efficiency and Designs