# Designing Audio Power Amplifiers, 2<sup>nd</sup> Edition 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