

# ***Designing Audio Circuits and Systems***

## Chapter Listing

1. Introduction
2. A Simple Preamplifier Design
3. Circuit Building Blocks
4. Passive Components
5. Surface Mount Technology
6. Poles, Zeros, Networks and Bode Plots
7. Semiconductors
8. Operational Amplifiers
9. Negative Feedback
10. Noise
11. Filters
12. Distortion
13. Switches and Relays
14. Power Supplies and Grounding
15. Moving Magnet Phono Preamplifiers
16. Moving Coil Phono Preamps
17. Tape Preamps and NAB/IEC Equalization
18. Microphone Preamps
19. Balanced Inputs and Outputs
20. Equalizers and Tone Controls
21. Headphone Amplifiers
22. Volume, Balance, Fader and Panning Controls
23. Digital-to-Analog Converters
24. Active Crossovers and Loudspeaker Equalization
25. Voltage Controlled Amplifiers (VCAs)
26. Compressors and Other Dynamic Processors
27. Level Displays and Metering
28. Microcontrollers and Microcomputers
29. Mixers and Recording Consoles
30. DI Boxes and Microphone Splitters