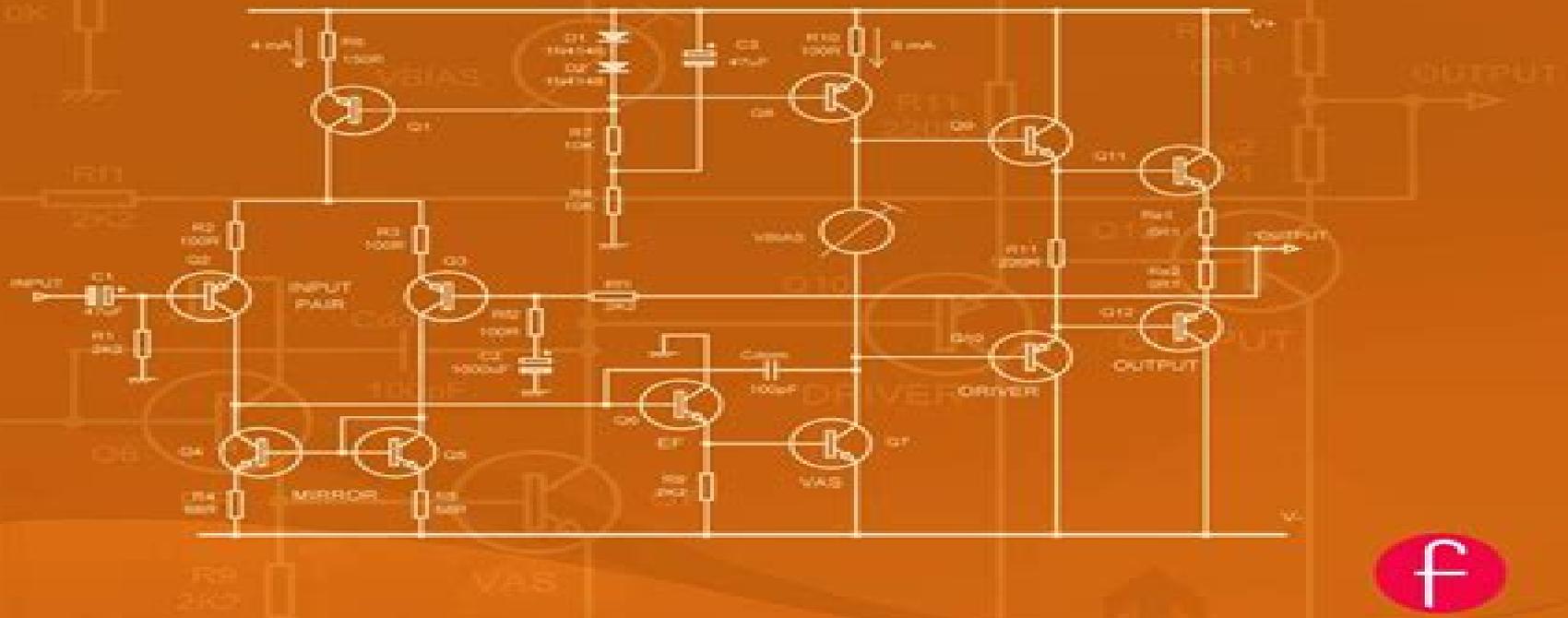


AUDIO POWER AMPLIFIER DESIGN

SIXTH EDITION



Audio Power Amplifier Design Handbook

Ying-Ying Zheng



Audio Power Amplifier Design Handbook:

Audio Power Amplifier Design Handbook Douglas Self, 2002-05-16 Douglas Self has called upon his years of experience at the cutting edge of audio design to compile this handbook for professionals and students. The book provides a clear and practical guide to the state of the art and includes detailed design and construction information. This new edition is more comprehensive than ever with a new chapter on Class G amplifiers and further new material on output coils, thermal distortion, relay distortion, ground loops, triple EF output stages, and convection cooling. Douglas Self has dedicated himself to demystifying amplifier design and establishing empirical design techniques based on electronic design principles and experimental data. His rigorous and thoroughly practical approach has established him as a leading authority on amplifier design, especially through the pages of *Electronics World* where he is a regular contributor. Discover the secrets of cutting edge audio design. The definitive professional handbook for amplifier designers. Includes a new chapter on Class G amplifiers.

Audio Power Amplifier Design Handbook Douglas Self, 2006-07-04 First Published in 2006. Routledge is an imprint of Taylor Francis, an Informa company. *Audio Power Amplifier Design Handbook* Douglas Self, 2012-10-12 This book is essential for audio power amplifier designers and engineers for one simple reason: it enables you as a professional to develop reliable, high-performance circuits. The author, Douglas Self, covers the major issues of distortion and linearity, power supplies, overload, DC protection, and reactive loading. He also tackles unusual forms of compensation and distortion produced by capacitors and fuses. This completely updated fifth edition includes four NEW chapters, including one on the XD Principle, invented by the author and used by Cambridge Audio. Crosstalk, power amplifier input systems, and microcontrollers in amplifiers are also now discussed in this fifth edition, making this book a must-have for audio power amplifier professionals and audiophiles. [Audio Power Amplifier Design Handbook](#), 2009 *Audio Power Amplifier Design Handbook* Douglas Self, 2009 Based on his work at Soundcraft Electronics, Douglas Self shows how to design and build audio power amplifiers using the most up-to-date components and technologies. *Audio Power Amplifier Design Handbook, 4th Edition* Douglas Self, 2006 Douglas Self offers a tried and tested method for designing audio amplifiers in a way that improves performance at every point in the circuit where distortion can creep in without significantly increasing cost. His quest for the Blameless Amplifier takes readers through the causes of distortion, measurement techniques, and design solutions to minimize distortion and efficiency. The result is a book that is crammed with unique insights into audio design and performance, as well as complete amplifier designs and schematics. Whether you are a dedicated audiophile who wants to gain a more complete understanding of the design issues behind a truly great amp, or a professional electronic designer seeking to learn more about the art of amplifier design, Douglas Self's Handbook is the essential guide to design principles and practice. Self is a senior designer with a high-end audio manufacturer, as well as the author of numerous magazine articles in the pages of *Electronics World* and *Wireless World*. His career in audio design is the foundation of a book that is based solidly on practical

experience as well as a dedication to a methodology based on measurement analysis and scientific design principles The fourth edition includes new material on DC offset protection circuitry the design of DC servos and electrical safety and safety standards In addition there is a new chapter on Class D power amplifiers EPS files for selected figures are available at <http://books.elsevier.com/companions/9780750680721>

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Designing Audio Power Amplifiers Bob Cordell,2010-09-22 Master the art of audio power amplifier design This comprehensive book on audio power amplifier design will appeal to members of the professional audio engineering community as well as the hobbyist Designing Audio Power Amplifiers begins with power amplifier design basics that a novice can understand and moves all the way through to in depth design techniques for the very sophisticated audiophile and professional audio power amplifier designer This is the single best source of knowledge for anyone who wants to design an audio power amplifier whether for fun or profit Develop and hone your audio design skills with in depth coverage of these and other topics Basics of audio power amplifier design MOSFET power amplifiers and error correction Static and dynamic crossover distortion demystified Understanding negative feedback and the controversy surrounding it Advanced negative feedback compensation techniques Sophisticated DC servo

design Audio measurements and instrumentation Overlooked sources of distortion SPICE simulation for audio amplifiers including a tutorial SPICE transistor modeling including the EKV model for power MOSFETs Thermal design and the use of ThermalTrak transistors Four chapters devoted to class D amplifiers Supplemental material available at www.cordellaudio.com includes Ready to run amplifier simulations Key transistor models Other bonus materials Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists

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[Audio Engineering Explained](#) Douglas Self, 2012-11-12 All the design and development inspiration and direction an audio engineer needs in one blockbuster book Douglas Self has selected the very best sound engineering design material from the Focal and Newnes portfolio and compiled it into this volume The result is a book covering the gamut of sound engineering The material has been selected for its timelessness as well as for its relevance to contemporary sound engineering issues

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High-Power Audio Amplifier Construction Manual G. Randy Slone, 1999-05-22 Design and build awesome audio amps Amateur and professional audiophiles alike can now design and construct superior quality amplifiers at a fraction of comparable retail prices with step by step instruction from the High Power audio Amplifier Construction Manual Randy Slone professional audio writer and electronics supply marketer delivers the nuts and bolts know how you need to optimize performance for any audio system from home entertainment to musical instrument to sound stage Build a few simple projects or delve into the physics of audio amplifier operation and design This easy to understand guide walks you through Building the optimum audio power supply Audio amplifier power supplies and construction Amplifier and loudspeaker protection methods Stability distortion and performance Audio amplifier cookbook designs Construction techniques Diagnostic equipment and testing procedures Output stage configurations classes and device types Crossover distortion physics Mirror image input stage topologies

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Audio Electronics ,2000 *Book Review Index* ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index

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Table of Contents Audio Power Amplifier Design Handbook

1. Understanding the eBook Audio Power Amplifier Design Handbook
 - The Rise of Digital Reading Audio Power Amplifier Design Handbook
 - Advantages of eBooks Over Traditional Books
2. Identifying Audio Power Amplifier Design Handbook
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Audio Power Amplifier Design Handbook
 - User-Friendly Interface
4. Exploring eBook Recommendations from Audio Power Amplifier Design Handbook
 - Personalized Recommendations

- Audio Power Amplifier Design Handbook User Reviews and Ratings
- Audio Power Amplifier Design Handbook and Bestseller Lists
- 5. Accessing Audio Power Amplifier Design Handbook Free and Paid eBooks
 - Audio Power Amplifier Design Handbook Public Domain eBooks
 - Audio Power Amplifier Design Handbook eBook Subscription Services
 - Audio Power Amplifier Design Handbook Budget-Friendly Options
- 6. Navigating Audio Power Amplifier Design Handbook eBook Formats
 - ePub, PDF, MOBI, and More
 - Audio Power Amplifier Design Handbook Compatibility with Devices
 - Audio Power Amplifier Design Handbook Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Audio Power Amplifier Design Handbook
 - Highlighting and Note-Taking Audio Power Amplifier Design Handbook
 - Interactive Elements Audio Power Amplifier Design Handbook
- 8. Staying Engaged with Audio Power Amplifier Design Handbook
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Audio Power Amplifier Design Handbook
- 9. Balancing eBooks and Physical Books Audio Power Amplifier Design Handbook
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Audio Power Amplifier Design Handbook
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Audio Power Amplifier Design Handbook
 - Setting Reading Goals Audio Power Amplifier Design Handbook
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Audio Power Amplifier Design Handbook
 - Fact-Checking eBook Content of Audio Power Amplifier Design Handbook

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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