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Bootstrapped Class AB

Op-amp Audio Power

Amplifier Design

Discrete audio amplifier

design and build PART

1 - Introduction 1.1.

~~Introduction to Audio~~

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~~Specifications - Audio~~

~~Amplifier Design~~

Fundamentals

Designing Audio

Power Amplifiers in 60

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Seconds! ~~Design of
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Basic Circuit Build
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for \$300 How it works -
Bootstrap circuit in
audio output stage Dual
supply audio amplifier
kit powered from single
power supply *What are
the differences between
Class A, AB, and Class*~~

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thermal stability Power
amps, Integrated amps,
& Receivers, what
is the main difference.
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LM386 booster

transistor audio

amplifier design and

test AX 14 CLASS AB

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Power Amplifier Design

for Guitar **Transistor**

Amplifiers - Class A,

AB, B, \u0026amp; C

Circuits *Power Supply*

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Audio Amplifier part 1

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power amplifier for \$3K

LM3886 Hi-Fi Audio
Amplifier Design
Tutorial

188N. Intro. to RF
power amplifiers
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~~Power Amplifier Design~~
Considerations Audio
Power Amplifier Design
power amplifier design
and distortion
measurement in the

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amplifier press and in the
Journal of the Audio
Engineering Society. In
1983 he published a
power amplifier design
combining vertical
power MOSFETs with
error correction,
achieving
unprecedented distortion
levels of less than
0.001% at 20 kHz.

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Amplifier Design

This book is the essential reference for audio power amplifier designers and engineers.

Author Douglas Self covers all the issues of distortion and linearity, power supplies, protection, reliability and layout. He also tackles unusual forms of compensation and unexpected sources of

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Amplifier such as
capacitors and fuses.

Audio Power Amplifier
Design: Amazon.co.uk:
Self, Douglas ...

Key design parameters
for audio power
amplifiers are frequency
response, gain, noise,
and distortion. These are
interdependent;
increasing gain often
leads to undesirable

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increases in noise and distortion. While negative feedback actually reduces the gain, it also reduces distortion. Most audio amplifiers are linear amplifiers operating in class AB.

Audio power amplifier -
Wikipedia
from the simplest
concepts of circuit

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design. For our project, we set out to design an audio amplifier. The inputs of our circuit were stereo signals from a portable music player. Although we used a low-power speaker, we needed to achieve approximately three times gain over the entire circuit. In addition, the amplifier had

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Designing an Audio
Amplifier - Webs

THE CONTENTS

INCLUDE: New
Findings in amplifier
design Science &
Subjectivism The
Performance

Requirements How
Negative Feedback
really works The Eleven
Distortion Mechanisms
Diagnosis via distortion

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residuals The input
stage: how it can cancel
distortion The Voltage-
Amplifier Stage Output
stages Amplifiers and
reactive loads
Anomalous loudspeaker
behaviour Interchannel
crosstalk Compensation,
Slew-Rate, and Stability
Power Supplies and
PSRR Class-A
amplifiers, with a design
example Class-G ...

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The Audio Power
Amplifier Design
Handbook

? To design three class
AB power amplifiers
with feedback-pair
complimentary
symmetry output driven
by an active 3-way cross-
over network and a pre-
amplifier. ? The total
power of the three
power amplifiers should

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some up to a total of
100W each driving a
resistive load of 8 ohms.

? The filters making up
the active network
should be second order
with Butterworth
response comprising of
Sallen-Key Topology.

DESIGN AND
IMPLEMENTATION
OF 100 W CLASS AB
POWER AMPLIFIER

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With the right layout and component selection, you can build an excellent sounding Hi-Fi audio amplifier that will rival high-end amps retailing for several thousand dollars or more. In this tutorial, I'll go step by step through the amplifier design process as I build a 40 Watt stereo amplifier using the

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LM3886. I'll explain what each part of the circuit does, and show you how to calculate the right component values with examples from the amplifier I'm building.

A Complete Guide to
Design and Build a Hi-
Fi LM3886 Amplifier
THE MJR7-Mk5
LATERAL MOSFET
CLASS-AB POWER

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AMPLIFIER. Tested at 4V into a 7R5 load to check for crossover effects the 1kHz distortion was mostly second harmonic under -120dB (0.0001%), achieved with only 100mA quiescent current. Power output is around 30W into 8ohms with a single 60V supply, or higher voltages can be used for

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up to about 100W.

Design

Audio Amplifier Design

Power amplifiers

designed to amplify

analog signals come

under A, B, AB or C

category. Power

amplifiers designed to

amplify Pulse Width

Modulated(PWM)

digital signals come

under D, E, F etc. The

most commonly used

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power amplifiers are the ones that are used in audio amplifier circuits and they come under classes A, B, AB or C.

What is a Power
Amplifier? Types,
Classes and
Applications

The power supply may influence the output, so must be considered in the design. The power

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output from an amplifier cannot exceed its input power. The amplifier circuit has an "open loop" performance. This is described by various parameters (gain, slew rate, output impedance, distortion, bandwidth, signal-to-noise ratio, etc.).

Amplifier - Wikipedia
Discussions on power

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Amplifier design sent to me by Peter Baxandall
LINEAR AUDIO: An excellent bookzine by Jan Didden Volume 0 contains an article by me on inclusive power amplifier compensation, and Volume 1 has a note on capacitor distortion. See [HERE](#). The Power Amplifier Design Department. Distortion in power amplifiers;

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Class-G amplifiers

Design

The Amplifier Institute.

Excellent in-depth exploration of many points of audio power amp design. Very clearly written, though does assume basic electronic and audio knowledge. Cordell covers some of the same points, but the two books complement each

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Amplifier Design
other and it is worth
reading both.

Audio Power Amplifier
Design Handbook:

Amazon.co.uk: Self ...

Audio Power Amplifier
Design (6th Edition)

This is the essential
book reference for
amplifier designers.

Douglas Self covers all
the design issues of
noise, distortion, power

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Amplifier
Design
supply rejection,
protection, reliability,
and layout.

Audio Power Amplifier
Design (6th Edition) -
Elektor

Traditional amplifiers,
like the class AB,
operate as linear
devices. Compare this to
switching amplifiers, so
called because the
power transistors (the

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MOSFETs) are acting like switches, changing their state from OFF to ON. This allows a very high efficiency, up to 80 - 95%.

How to Build a Class-D Power Amp - Projects

A straightforward analog implementation of an audio amplifier uses transistors in linear mode to create an output

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Amplifier Design
voltage that is a scaled copy of the input voltage. The forward voltage gain is usually high (at least 40 dB). If the forward gain is part of a feedback loop, the overall loop gain will also be high.

Class D Audio
Amplifiers: What, Why,
and How | Analog
Devices

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This experimental (3)
transistor class A audio
power amplifier delivers
25mW into an 8 Ω load,
or 50mW into TDA7294
Audio Amplifier
Circuits P. Marian -
01/07/2013

Audio Amplifier
Circuits and Projects
Overview The 1000 W
class-D audio amplifier
reference design

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Amplifier Design provides an example for an audio amplifier along with a push-pull power converter. It operates using the KV1x Tower[®] series platform or k64 Freedom board.

Class D Audio
Amplifier Reference
Design | NXP
Power amplifier circuits
(output stages) are
classified as A, B, AB

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and C for linear designs—and class D and E for switching designs. The classes are based on the proportion of each input cycle (conduction angle) during which an amplifying device passes current. The image of the conduction angle derives from amplifying a sinusoidal signal.

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