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[The Design of Active Crossovers](#) Newton Abbot : David & Charles

This comprehensive book on audio power amplifier design will appeal to members of the professional audio engineering community as well as the student and enthusiast. 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 very sophisticated audiophiles and professional audio power amplifiers. This book is the single best source of knowledge for anyone who wishes to design audio power amplifiers. It also

provides a detailed introduction to nearly all aspects of analog circuit design, making it an effective educational text. Develop and hone your audio amplifier design skills with in-depth coverage of these and other topics: Basic and advanced audio power amplifier design Low-noise amplifier design Static and dynamic crossover distortion demystified Understanding negative feedback and the controversy surrounding it Advanced NFB compensation techniques, including TPC and TMC Sophisticated DC servo design MOSFET power amplifiers and error correction Audio measurements and instrumentation Overlooked sources of distortion SPICE simulation for audio amplifiers, including a tutorial on LTspice SPICE transistor modeling, including the VDMOS model for power MOSFETs Thermal design and the use of ThermalTrak(tm) transistors Four chapters on class D amplifiers, including measurement techniques Professional power amplifiers Switch-mode power supplies (SMPS). design Static and dynamic crossover distortion demystified Understanding negative feedback and the controversy surrounding it Advanced NFB compensation techniques, including TPC and TMC

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Designing Audio Power Amplifiers John Benjamins Publishing

The Design of Active Crossovers is a unique guide to the design of high-quality circuitry for splitting audio frequencies into separate bands and directing them to different loudspeaker drive units specifically designed for handling their own range of frequencies. Traditionally this has been done by using passive crossover units built into the loudspeaker boxes; this is the simplest solution, but it is also a bundle of compromises. The high cost of passive crossover components, and the power losses in them, means that passive crossovers have to use relatively few parts. This limits how well the crossover can do its basic job. Active crossovers, sometimes called electronic crossovers, tackle the problem in a much more sophisticated manner. The division of the audio into bands is performed at low signal levels, before the power amplifiers, where it can be done with much greater precision. Very sophisticated filtering and response-shaping networks can be built at comparatively low cost. Time-delay networks that compensate for physical misalignments in speaker construction can be implemented easily; the equivalent in a passive crossover is impractical because of the large cost and the heavy signal losses. Active crossover technology is also directly applicable to other band-splitting signal-processing devices such as multi-band compressors. The use of active crossovers is increasing. They are used

by almost every sound reinforcement system, by almost every recording studio monitoring set-up, and to a small but growing extent in domestic hifi. There is a growing acceptance in the hifi industry that multi-amplification using active crossovers is the obvious next step (and possibly the last big one) to getting the best possible sound. There is also a large usage of active crossovers in car audio, with the emphasis on routing the bass to enormous low-frequency loudspeakers. One of the very few drawbacks to using the active crossover approach is that it requires more power amplifiers; these have often been built into the loudspeaker, along with the crossover, and this deprives the customer of the chance to choose their own amplifier, leading to resistance to the whole active crossover philosophy. A comprehensive proposal for solving this problem is an important part of this book. The design of active crossovers is closely linked with that of the loudspeakers they drive. A chapter gives a concise but complete account of all the loudspeaker design issues that affect the associated active crossover. This book is packed full of valuable information, with virtually every page revealing nuggets of specialized knowledge never before published. Essential points of theory bearing on practical performance are lucidly and thoroughly explained, with the mathematics kept to an essential minimum. Douglas' background in design for manufacture ensures he keeps a wary eye on the cost of things. Features: Crossover basics and requirements The many different crossover types and how they work Design almost any kind of active filter with minimal mathematics Make crossover filters with very low noise and distortion Make high-performance time-delay filters that give a constant delay over a wide range of frequency Make a wide variety of audio equaliser stages: shelving, peaking and notch characteristics All about active crossover system design for optimal noise and dynamic range There is a large amount of new material that has never been published before. A few examples: using capacitance multipliers in biquad equalisers, opamp output biasing to reduce distortion, the design of NTMTM notch crossovers, the design of special filters for filler-driver crossovers, the use of mixed capacitors to reduce filter distortion, differentially elevated internal levels to reduce noise, and so on. Douglas wears his learning lightly, and this book features the engaging prose

style familiar from his other books *The Audio Power Amplifier Design Handbook*, *Self on Audio*, and the recent *Small Signal Audio Design*.

Audio Newnes

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.

Hi-fi News Taylor & Francis

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, there can be no better place to start than with the 35 classic magazine articles collected together in this book. 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. Through the articles in this book, he takes readers through the causes of distortion, measurement

techniques, and design solutions to minimise distortion and efficiency. Most of the articles are based round the design of a specific amplifier, making this book especially valuable for anyone considering building a Self amplifier from scratch. Self is senior designer with a high-end audio manufacturer, as well as a prolific and highly respected writer. His career in audio design is reflected in the articles in this book, originally published in the pages of *Electronics World* and *Wireless World* over a 25 year period. - An audio amp design cookbook, comprising 35 of Douglas Self's definitive audio design articles - Complete designs for readers to build and adapt - An anthology of classic designs for electronics enthusiasts, Hi-Fi devotees and professional designers alike
High Fidelity News and Record Review Taylor & Francis

Written by a team of experts, the *Loudspeaker and Headphone Handbook* provides a detailed technical reference of all aspects of loudspeakers and headphones: from theory and construction of transducer drive units and enclosures, to such practical matters as construction, applications in rooms, public address, sound reinforcement, studio monitoring and musical instruments. Loudspeaker measurements and subjective evaluation are treated in equal detail and headphones are discussed comprehensively. This third edition takes account of recent significant advances in technology, including:

· the latest computer-aided design systems · digital audio processing · new research procedures · the full range of loudspeakers · new user applications.

Loudspeaker and Headphone Handbook Taylor & Francis

Digital Audio and Compact Disc Technology, Second Edition presents the principles behind the development of the compact disc digital audio system. The book discusses the aspects of digital audio and compact disc technology, which has revolutionized the way music is recorded and consumed. The text contains chapters that discuss the principles of digital signal processing, such as, sampling, quantization and error correction; codes for digital magnetic recording; an overview of the compact disc medium; compact disc encoding; and digital audio recording systems. Electronics enthusiasts and engineers will find the book informative.

Gramophone Elsevier

Described as "the most comprehensive book on digital audio to date", it is widely acclaimed as an industry "bible". Covering the very latest developments in digital audio technology, it provides an thorough introduction to the theory as well as acting as an authoritative and comprehensive professional reference source. Everything you need is here from the fundamental principles to the latest applications, written in an award-winning style with clear explanations from first principles. New material covered includes internet audio, PC audio technology, DVD, MPEG audio compression, digital audio broadcasting and audio networks. Whether you are in the field

of audio engineering, sound recording, music technology, broadcasting and communications media or audio design and installation, this book has it all. Written by a leading international audio specialist, who conducts professional seminars and workshops around the world, the book has been road tested for many years by professional seminar attendees and students to ensure their needs are taken into account, and all the right information is covered. This new edition now includes: Internet audio PC Audio technology DVD MPEG Audio compression Digital Audio Broadcasting Audio networks Digital audio professionals will find everything they need here, from the fundamental principles to the latest applications, written in an award-winning style with clear explanations from first principles. John Watkinson is an international consultant in audio, video and data recording. He is a Fellow of the AES, a member of the British Computer Society and a chartered information systems practitioner. He presents lectures, seminars, conference papers and training courses worldwide. He is the author of many other Focal Press books, including: the Kraszna-Krausz award winning MPEG-2; The Art of Digital Audio; An Introduction to Digital Video; The Art of Sound Reproduction; An Introduction to Digital Audio; TV Fundamentals and Audio for Television. He is also co-author, with Francis Rumsey, of The Digital Interface Handbook, and contributor to the Loudspeaker and Headphone Handbook, 3rd edition.

Theoretical and Crosslinguistic Approaches to the Semantics of Aspect Taylor & Francis

The papers in this volume investigate the semantics of aspect from both a theoretical and cross linguistic point of view, in a wide range of languages from a number of different language families. The papers are

all informed by the belief that a thorough exposure to the expression of aspect cross-linguistically is crucial for progress in understanding how the semantics of aspect and what the semantic basis of aspectual distinctions is. The languages discussed include Russian, English, Dutch, Hebrew, Mandarin, Japanese and Kalaallisut. The issues discussed in this volume include the centrality of measuring and counting in an understanding of telicity; the importance of the singular/plural distinction in the study of aspect, the importance of homogeneity as a property of event types, the flexibility of lexical classes, and the interaction between expressions of aspect and the particular morphosyntactic structure of a language.

Hi-fi News & Record Review

A feast for all his many fans and admirers, this is the great Humphrey Lyttelton's last book, a sparkling autobiographical kaleidoscope of memories, anecdotes, and entertaining stories from his colourful life, from his childhood as the son of a famous Eton Housemaster, through to his role as the irrepressible chairman of I'm Sorry I Haven't a Clue. A Renaissance man – musician, writer, cartoonist, calligrapher and broadcaster – Humphrey was descended from a long line of land-owning, political, literary, clerical, scholastic and literary forebears. One of his more notorious relatives was executed for his part in the Gun Powder Plot! Last Chorus draws on some of Humphrey's long-lost auto-biographical writings, as well as a wealth of other material, including his never-before-seen

private diaries, plus cartoons and Whether sneaking off when a child to buy his first trumpet, or wading ashore in Italy during World War II with a rifle in one hand and a trumpet in the other, or playing alongside such jazz greats as Louis Armstrong and Duke Ellington, Humphrey was very much his own man, and he comes vividly to life in this engaging and witty self-portrait. Every Monday night from 1967 until 2008, Humphrey Lyttelton wrote and presented BBC's The Best of Jazz, and he was, famously, Chairman of the anarchic, award-winning radio programme, I'm Sorry, I Haven't a Clue. He wrote nine books, and composed over two hundred tunes, and has Honorary Doctorates at the universities of Warwick, Loughborough, Durham, Keele, Hertford and de Montfort.

Last Chorus

Modern Control System Theory and Application

Government Partnership in Railroads

Digital Audio and Compact Disc Technology

The Gramophone Guide to Hi-fi

A Partnership that Works

The Gramophone

Audio Power Amplifier Design

Self on Audio

Classic CD.

Liverpool Eric's