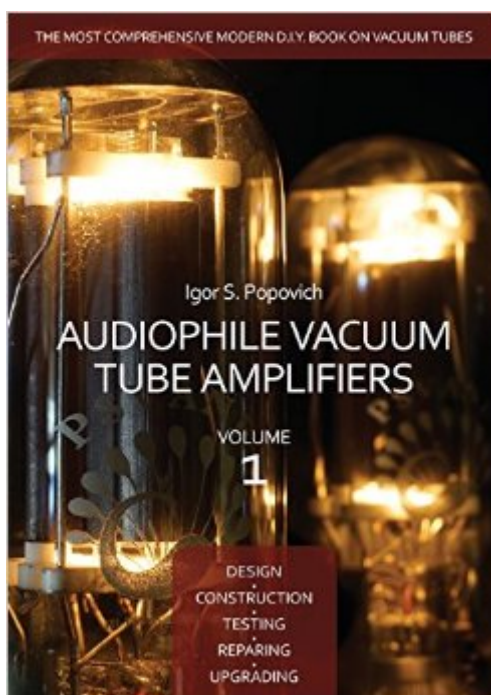


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Audiophile Vacuum Tube Amplifiers - Design, Construction, Testing, Repairing & Upgrading, Volume 1



Synopsis

The most complete and practical modern reference on audiophile vacuum tube technology!

Destined to become a true classic in its field, this unique DIY design & construction manual presents the theory and practice of amplifier design & construction in a balanced way. For those who dislike formulas and want proven, practical, ready-to-build designs, dozens of such commercial, tried & tested circuits are explained and analyzed. Just get your soldering iron ready and start building! Absolute beginners will benefit from the methodological approach, starting with DC circuits, then moving into AC voltages and currents and their circuits. The first few chapters of Volume 1 are a complete training course in fundamentals of electronics. Although the focus is on audiophile or "hi-fi" vacuum tube amplifiers, those interested in tube guitar amps will also benefit from the wealth of material presented, most of which directly applies to tube guitar amps as well. Apart from various audio circuits, electronic components, power supplies and tests & measurements are also covered in depth. Even tube testing and tube testers are discussed at great length, as is troubleshooting, repairing and modifying (upgrading) tube gear. The advanced topics that other books don't even mention, such as audio transformer design, construction and testing, make this reference manual a valuable addition to your technical library. For those familiar with solid state devices, such as bipolar transistors and FETs, an easy and seamless transition into tube technology is provided in the book, which adopts a unifying approach to amplification and rectification devices, be they of solid state or vacuum tube kind. This practical DIY manual is richly and professionally illustrated with photographs of tubes, components and amplifiers, circuit diagrams, tube pinouts, curves and loadlines, graphs and charts. Hundreds of such valuable illustrations make it easy to comprehend issues. There is no need to search for, download and print such information, saving you valuable time. All the information required to design and build tube amplifiers is compiled in one place. Who is this book for? • Audiophiles and guitar players wanting to learn how tubes and tube amplifiers work. • DIY constructors who wish to take their knowledge and building skills to a higher level. • Buyers and sellers of tubes and tube equipment who need a better understanding of tube technology. • Electronic technicians and engineers familiar with solid state devices and circuits, who want to expand their knowledge of tubes and their circuits. • Anyone who wants to learn how to design, build, test, fix, or upgrade tube gear. Contents of Volume 1: • WHO WILL BENEFIT FROM THIS BOOK AND HOW • BASIC ELECTRONIC CIRCUIT THEORY • ELECTRONIC COMPONENTS • AUDIO FREQUENCY AMPLIFIERS • PHYSICAL FUNDAMENTALS OF VACUUM TUBE OPERATION • VOLTAGE AMPLIFICATION WITH TRIODES - THE COMMON CATHODE STAGE • OTHER VOLTAGE AMPLIFICATION STAGES WITH TRIODES

• TETRODES AND PENTODES AS VOLTAGE AMPLIFIERS • FREQUENCY RESPONSE OF VACUUM TUBE AMPLIFIERS • IMPEDANCE-COUPLED STAGES AND INTERSTAGE TRANSFORMERS • NEGATIVE FEEDBACK • TONE CONTROLS, ACTIVE CROSSOVERS AND OTHER CIRCUITS • PRACTICAL LINE-LEVEL PREAMPLIFIER DESIGNS • PHONO PREAMPLIFIERS • SINGLE-ENDED TRIODE OUTPUT STAGE • PRACTICAL SINGLE-ENDED TRIODE AMPLIFIER DESIGNS • PRACTICAL SINGLE-ENDED PSEUDO-TRIODE DESIGNS • SINGLE-ENDED PENTODE AND ULTRALINEAR OUTPUT STAGES

Book Information

Paperback: 290 pages

Publisher: Career Professionals (January 29, 2015)

Language: English

ISBN-10: 0980622328

ISBN-13: 978-0980622324

Product Dimensions: 8.3 x 0.6 x 11.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars • See all reviews • (7 customer reviews)

Best Sellers Rank: #275,843 in Books (See Top 100 in Books) #81 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics #82 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #139 in Books > Science & Math > Physics > Acoustics & Sound

Customer Reviews

This is a terrific publication, if your into tube audio this is the book you need. I have volume two as well. Both books are really well set out, going from basic electrical theory to how tubes and associated circuits work. Igor Popovich has an excellent way of explaining even the more complex designs. I have built some of the tube amplifiers from these books with fantastic results. I could not speak more highly of this book and would recommend both publications to anyone who has an interest in the wonderful world of tube audio.

I have bought both volume 1 & 2 and am about half way through the first volume. It is a very thorough book without going over the top. Everything follows a logical progression from basic electronic theory to components to general audio amplifiers to fundamentals of vacuum tube

operation & so on. It does assume a basic understanding of electronics & high school mathematics, but that's enough to work through & build up your knowledge. Richly illustrated, with lots of real life tube circuitry & explanations on how they work. Not a book for absolute beginners, but not too overly technical to totally discourage you either! He completely covers his subject over the 2 volumes & I would recommend these to anyone who is serious in learning how these wonderful amplifiers work!

One of the best books on Vacuum tubes I own. I purchased this book and then immediately purchased volume 2 by the same author

If You Know Parts, or Have Vocational Training This May Work For You. LINEAR ALGEBRA warning here.

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