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Audiophile Vacuum Tube Amplifiers - Design, Construction, Testing, Repairing & Upgrading, Volume 2

Igor S. Popovich

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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 2:

•PRACTICAL SINGLE-ENDED PENTODE AND ULTRALINEAR DESIGNS

•PUSH-PULL OUTPUT STAGES

•PRACTICAL PUSH-PULL AMPLIFIER DESIGNS

•BALANCED, BRIDGE AND OTL (OUTPUT TRANSFORMERLESS) AMPLIFIERS

•THE DESIGN PROCESS

•FUNDAMENTALS OF MAGNETIC CIRCUITS AND TRANSFORMERS

•MAINS TRANSFORMERS AND FILTERING CHOKES

• POWER SUPPLIES FOR TUBE AMPLIFIERS

•AUDIO TRANSFORMERS

•TROUBLESHOOTING AND REPAIRING TUBE AMPLIFIERS

•UPGRADING & IMPROVING TUBE AMPLIFIERS

•SOUND CONSTRUCTION PRACTICES

•AUDIO TESTS & MEASUREMENTS

•TESTING & MATCHING VACUUM TUBES

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