

THE MOST COMPREHENSIVE MODERN DAILY BOOK ON VACUUM TUBES

Igor S. Popovich

# AUDIOPHILE VACUUM TUBE AMPLIFIERS

VOLUME

2

DESIGN  
•  
CONSTRUCTION  
•  
TESTING  
•  
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UPGRADING

# Audiophile Vacuum Tube Amplifiers Design Construction Testing Repairing Upgrading Volume 2

**Igor S. Popovich**



## **Audiophile Vacuum Tube Amplifiers Design Construction Testing Repairing Upgrading Volume 2:**

**Audiophile Vacuum Tube Amplifiers - Design, Construction, Testing, Repairing & Upgrading** Igor S.

Popovich, 2015-02-07 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-and-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 loadline 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

**Audiophile Vacuum Tube Amplifiers - Design,**

**Construction, Testing, Repairing & Upgrading** Igor S. Popovich, 2015-01-29 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      **Audiophile Vacuum Tube Amplifiers** Igor S. Popovich,2016-02-26  
Volume 3 of the most complete and practical modern reference on audiophile vacuum tube technology If you liked the practical side of Volumes 1 and 2 Volume 3 will delight you No theory just dozens of practical designs proven circuits and useful test measurement methods Various directly heated triodes are explored and used in line stages and power amplifiers a true heaven for DHT lovers Dozens of DIY and commercial amps and preamps with 2A3 300B VT25 46 12A 201A GM70 805 845 813 211A are described in detail their circuits analyzed and improvements suggested Most use no negative feedback and many feature interstage transformers or direct coupling Many less known preamplifier and driver tubes are also explored and used in practical designs EL33 12B4A EC8010 6EM7 6DN7 6N30P 5670 C3m C3g and 1626 VT 137 Most sound divine in preamplifiers and driver stages of power amplifiers More than a dozen of vintage designs were discussed and analyzed amplifiers that featured prominently in the history of hi fi or are recommended as upgrade platforms QUAD II The Williamson amplifier Dynaco MkIII Quicksilver 8417 and Fisher SA 1000 among others Designs by contemporary amplifier makers such as Audio Research E A R Shindo Labs Leben Jadis Audion Bel Canto Marantz and others also feature prominently in this volume Valuable lessons can be learned from these case studies Finally for those who want proven practical ready to build designs many of our own tried tested circuits are explained and analyzed Most outperform expensive commercial audiophile gear by a wide margin As an amateur DIY builder you are free to build them for your personal use so just get your soldering iron ready and start building 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 These valuable illustrations make it faster and easier to comprehend issues a picture is worth a thousand words All the information required to design and build tube amplifiers is compiled in one place Contents of Volume 3 WHY THE NEED FOR VOLUME 3 AND HOW IT DIFFERS FROM THE FIRST TWO THE FRONT END SUPERIOR INPUT DRIVER STAGES FROM SHOCKING TO SUBLIME LESSONS FROM COMMERCIAL LINE STAGES DIY LINE LEVEL PREAMPLIFIERS 10 000 SOUND ON 500 1 000 BUDGET THE STARS OF THE AUDION ERA ANCIENT TUBES IN MODERN AMPS CHEAP CHEERFUL PREAMP DRIVER TUBES FOR AUDIO EXPLORERS SLEEPING GIANTS OUTPUT TUBES FOR THOSE WHO WANT TO BE DIFFERENT THE QUEEN OF HEARTS SINGLE ENDED AMPLIFIERS WITH 300B TRIODES TRIODES PENTODES AND BEAM TUBES MORE SINGLE ENDED DESIGNS BIG BOTTLES SET AMPLIFIERS WITH HIGH VOLTAGE TRANSMITTING TUBES THE WAY IT USED TO BE VINTAGE PUSH PULL AMPLIFIERS NEW IMPROVED MODERN PUSH PULL AMPLIFIER DESIGNS CUTE CLEVER OR CONTROVERSIAL INTERESTING IDEAS FROM TUBE AUDIO S PAST AND PRESENT THRIFTY TIPS TRICKS TIME MONEY SAVING IDEAS OUTPUT AND INTERSTAGE TRANSFORMERS FROM COMMERCIALBENCHMARKS TO YOUR OWN DESIGNS MEASUREMENTS VERSUS LISTENING AND OTHER AUDIO DESIGN DILEMMAS      Tube Guitar Amplifiers  
Volume 2 Igor S. Popovich,2017-06-20 Guitar amp troubleshooting repair test measurements building construction of vacuum

tube guitar amplifiers it s all here Dozens of tried tested designs are featured using both less common but great sounding tubes and much loved favorites such as EL84 6V6 6L6 EL34 and 7027A A real treat for amp designers DIY builders [High Fidelity News and Record Review](#) ,1993 **The Tube Amplifier Schematic Bible Volume 2** Salvatore Gambino,2014-07-07 This book of amp schematics was assembled with service and repair in mind I have always had a very deep respect for the design and performance that tube amps produce Let s face it guitar tube amps don t always get the respect that they deserve Tube amplifiers have always worked hard and should be looked at as a major part of your sound as they inspire you to dig deep into your playing If you feel somewhat the same way I do about tube amps then you know each amplifier has their own characteristics and tone I hope you can use this educational information to understand how tube amps are designed and how they work **Building Valve Amplifiers** Morgan Jones,2013-11-07 Building Valve Amplifiers is a unique hands on guide for anyone working with tube audio equipment as an electronics hobbyist audiophile or audio engineer This 2nd Edition builds on the success of the first with technology and technique revisions throughout and significantly a major new self build project worked through step by step which puts into practice the principles and techniques introduced throughout the book Particular attention has been paid to answering questions commonly asked by newcomers to the world of the valve whether audio enthusiasts tackling their first build or more experienced amplifier designers seeking to learn about the design principles and trade offs of glass audio Safety considerations are always to the fore and the practical side of this book is reinforced by numerous clear illustrations throughout The only hands on approach to building valve and tube amps classic and modern with a minimum of theory Design construction fault finding and testing are all illustrated by step by step examples enabling readers to clearly understand the content and succeed in their own projects Includes a complete self build amplifier project putting into practice the key techniques introduced throughout the book *Audiophile Vacuum Tube Amplifiers* ,2016 **The TAB Guide to Vacuum Tube Audio: Understanding and Building Tube Amps** Jerry C. Whitaker,2011-11-05 Incorporate the tube sound into your home audio system Learn how to work with vacuum tubes and construct high quality audio amplifiers on your workbench with help from this hands on do it yourself resource The TAB Guide to Vacuum Tube Audio Understanding and Building Tube Amps explains tube theory and construction practices for the hobbyist Seven ready to build projects feature step by step instructions detailed schematics and layout tips You ll also find out how to tweak the projects each based on a classic RCA design for your own custom built amps Coverage includes Principles and operational theory behind vacuum tubes Tube nomenclature applications and specifications Circuit layout connections and physical construction Finding and selecting the right components for the project Power supplies for vacuum tube circuits Preamplifier and power amplifier circuits Performance measurement Safety maintenance and troubleshooting techniques Tips on building your own tube based system and having fun in the process This book is intended for hobbyists interested in adding the tube sound to any audio system Readers looking for high performance

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Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists

[Design of an Integrated Push-Pull Tube Amplifier Made Easy](#) Giuseppe Amato,2018-08-30 This book is a beginner's guide that brings you from the basic concepts of vacuum tubes up to the design of a complete integrated push pull vacuum tube amplifier This book first introduces the needed principles to designing and understanding vacuum tube amplifiers Then it considers all relevant aspects for designing an integrated push pull vacuum tube amplifier including the power supply unit Finally a real integrated push pull vacuum tube amplifier is designed from scratch using the various concepts discussed in this book This book makes an extensive use of figures and proposes several practical examples to design various parts of the circuits and to compute values of the needed components This significantly contributes to simplify some possibly difficult concepts addressed The book is structured as follows Chapter 1 Introduction introduces the book itself and gives some suggestions on how to read it Chapter 2 Vacuum tube basics introduces the needed concepts to understand vacuum tubes This is a very basic introduction needed for the non initiated If you already know what vacuum tubes are and how they operate you can skip this chapter Chapter 3 Vacuum tubes as amplifiers discusses how vacuum tubes can be used to obtain an amplifier It introduces the concepts of operating conditions loadline biasing techniques and amplifier classes Chapter 4 Integrated push pull vacuum tube amplifier goes into the details of designing an integrated push pull vacuum tube amplifier It discusses the single ended and push pull configurations the various needed stages power phase split and input stages and global negative feedback Chapter 5 Power supply unit discusses how to build the power supply unit for a vacuum tube amplifier It introduces rectifier configurations and filters to reduce voltage ripple to have a quiet amplifier It explains how to estimate expected output DC voltage ripple and current delivered It also discusses how to design power supply for the fixed bias circuit and for the filaments of the vacuum tubes Finally Chapter 6 Step by step design of a push pull tube amplifier use all needed notions to design an entire integrated push pull vacuum tube amplifiers It discuss the design of the power stage the phase split and the input stage It discusses the design of the global negative feedback loop It also provides the design of the corresponding power supply unit

[Amplifying with Vacuum Tubes](#) Carl Gauss,2018-07-13 Vacuum tube fundamental circuit design written for the novice interested in vacuum tube amplifier construction A brief concise book covering several factors of circuit design including bias requirements voltage gain requirements and power supply requirements To help understand circuit operation rather than use traditional schematic drawings pictorial illustrations are used In several sections circuit operation is demonstrated using illustrations along with a vacuum tube breadboard Experiments are used to correlate circuit design to actual working circuits Circuit calculations involving fundamental electronic formulas can be performed using a standard twelve digit calculator Examples of how to solve calculations are provided Basic electronic knowledge of voltage current and ohms law related to vacuum tube circuit

design is included where appropriate The 70 pages of circuit design contain enough information to design high quality vacuum tube amplifier circuits The last few pages of the book have related information including how to use sound pressure levels to determine amplifier power required to produce desired loudness

*The Audiophile's Project Sourcebook: 120 High-Performance Audio Electronics Projects* G. Randy Slone, 2001-11-20 THE AUDIOPHILE S PROJECT SOURCEBOOK Build audio projects that produce great sound for far less than they cost in the store with audio hobbyists favorite writer Randy Slone In The Audiophile s Project Sourcebook Slone gives you Clear illustrated schematics and instructions for high quality high power electronic audio components that you can build at home Carefully constructed designs for virtually all standard high end audio projects backed by an author who answers his email 8 power amp designs that suit virtually any need Instructions for making your own inexpensive testing equipment Comprehensible explanations of the electronics at work in the projects you want to construct spiced with humor and insight into the electronics hobbyist s process Complete parts lists The Audiophile s Project Sourcebook is devoid of the hype superstition myths and expensive fanaticism often associated with high end audio systems It provides straightforward help in building and understanding top quality audio electronic projects that are based on solid science and produce fantastic sound THE PROJECTS YOU WANT FOR LESS

Balanced input driver receiver circuits Signal conditioning techniques Voltage amplifiers Preamps for home and stage Tone controls Passive and active filters Parametric filters Graphic equalizers Biamping and triamping filters Headphone amplifiers Power amplifiers Speaker protection systems Clip detection circuits Power supplies Delay circuits Level indicators Homemade test equipment

Vacuum Tube Amplifiers George edward Valley, Henry Wallman, 1948 *Vacuum Tube and Guitar and Bass Amplifier Servicing* Tino Zottola, 1996-04 Vacuum Tube Amplifiers George Edmond Valley, Henry Wallman, 1948 *Inside Tube Amps* Dan Torres, 1998 **Vacuum Tube Amplifier Basics** EJ Jurich, 2025-03-15 This second edition of the book has much of the original book with the addition of a more detailed example of designing and building a vacuum tube amplifier There are 110 concise reference pages covering technical information that pertain to vacuum tube circuits Includes Ohm s law voltage current power and watts Explains capacitors series circuits parallel circuits voltage dividers reading circuit drawings plus other related information Principles of vacuum tube operation and power output are explained Also includes the functions of grids the effect of tube capacitance tube resistance heat dissipation bias and calculating voltage gain Vacuum tube and solid state power supply design is included The amplifier design example takes you through the steps of fabricating a traditional chassis layout and designing a Class A stereo amplifier pictured on the book cover Calculating circuit component values is presented with examples High resolution images illustrate point to point wiring Working with electronics and vacuum tube circuits requires some math Circuit calculations in this book use various forms of addition subtraction multiplication and division Formulas are all solvable using a standard 12 digit calculator requires a square root key Project circuits with layout drawings include a line amplifier with 25 dB gain a turntable preamplifier a 6V6

6L6 Class A monoblock amplifier a 30 watt monoblock amplifier and a basic 5 watt guitar amplifier The 30 watt monoblock amplifier is designed for tube rolling using various types of output tubes

**Fundamentals of Vacuum-tube Amplifiers**, 1966

**Valve Amplifiers** Morgan Jones, 2011-10-14 Valve Amplifiers has been recognized as the most comprehensive guide to valve amplifier design analysis modification and maintenance It provides a detailed presentation of the rudiments of electronics and valve design for engineers and non experts The source also covers design principles and construction techniques to help end users build their own tool from scratch designs that work The author s approach walks the reader through each step of designing and constructing starting with an overview of the essential working principles of valve amplifiers the simple and complex stages the process of linking the stages and completing the design The book is comprised of seven chapters all of which include a DIY guide discussion of practical aspects The text starts with familiarization of the fundamentals of electronics which are essential for designing and building valve amplifiers Particular attention has been paid to providing solutions for questions that are commonly asked and faced by beginners in valve designing and construction Valve Amplifiers is a masterful hands on guide for both experts and novices who work with tube audio equipment and for electronic hobbyists audio engineers and audiophiles The practical guide to analysis modification design construction and maintenance of valve amplifiers The fully up to date approach to valve electronics Essential reading for audio designers and music and electronics enthusiasts alike

**Vacuum-tube Amplifiers** Albert R. Hodges, Edward M. Noll, International Correspondence Schools, 1955

The Enigmatic Realm of **Audiophile Vacuum Tube Amplifiers Design Construction Testing Repairing Upgrading Volume 2**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Audiophile Vacuum Tube Amplifiers Design Construction Testing Repairing Upgrading Volume 2** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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