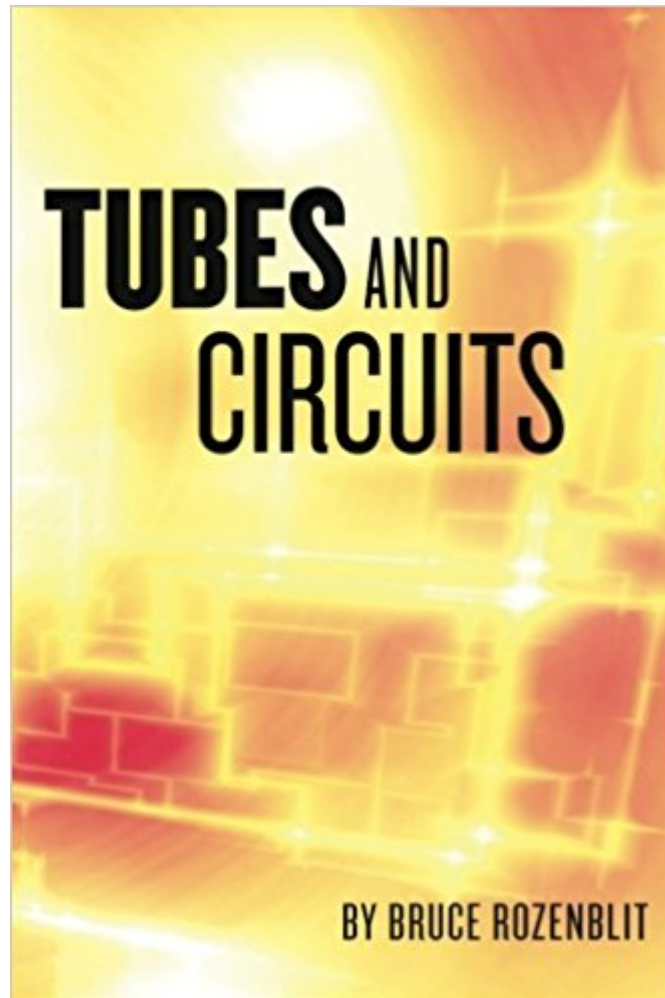




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# Tubes And Circuits



## Synopsis

The most up to date vacuum tube design book currently available. Packed with information...Loaded with projects...Nothing like it anywhere! Join Transcendent Sound's Bruce Rozenblit as he takes you on a journey from the basics of tube circuitry, through advanced designs. Tubes and Circuits is a condensed engineering manual that teaches the theory and operation of vacuum tubes as well as circuit design. In addition, five projects are included that you can build. Projects provide step-by-step design procedures, equations, schematics, parts lists, and photos to assist the hobbyist in construction. Build a state of the art, very low cost, 15W OTL (output transformerless) amplifier. Complete plans for a 300B OTL. Own most glorious 1 watt in all of audio. Pure single-ended, Class A sonic heaven. (See website for updates, [www.transendentsound.com](http://www.transendentsound.com)) A tube tester that tests virtually all current production audio and guitar amp tubes can be user modified to test any tube; a simple device used for testing most octal based rectifier tubes and a tube analyzer used for manually determining tube constants and bias currents. Tubes and Circuits provides all design procedures and equations necessary to allow readers to create their own designs. Practical methods are revealed all built upon a solid theoretical base. Bruce Rozenblit shares his decades of experience designing hi-end tube audio equipment. Nothing has been held back. Topics include the essential physics required to understand circuits. Explains in detail what electricity is and how it works. Shows how DC current flows and behaves through resistive elements. Detailed information on AC circuit theory, reactive elements, and how they affect signals. What inductance is and how it is created. How components are used to create networks and interact with each other includes transformer theory. Shows how feedback works and how best to use it. Reveals in detail the chemical and physical processes of how vacuum tubes function, generate current, age, and deteriorate. Shows how the electric fields inside vacuum tubes cause them to work. Demonstrates what tube constants are and how to use them. Shows how to use tube characteristic charts to derive the tube constants used in design equations. Explains load lines and their application. Detailed operation and all design equations for virtually all of the tube circuits used in high-end audio. Includes single-ended and push-pull transformer coupled output stages. Basic information on power supply design and function. All of the theory is put to use and made practical in the project chapters. Learn how to design OTL amplifiers. Anyone that uses vacuum tubes, from the hobbyist, the musician, to the design professional, would benefit from Tubes and Circuits.

## Book Information

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## Customer Reviews

Bruce Rozenblit is the President and Chief Engineer of Transcendent Sound, Inc., which specializes in vacuum tube audio kits for the DIY audiophile. He specializes in OTL (no output transformer) amplifiers that produce maximum fidelity. He holds a U.S. patent in amplifier design. He has been professionally involved in the audio industry since 1996, a lifelong audiophile and started working with tubes by 1985. This is his third book on audio technology.

This is an odd sort of book; the writing style is a bit on the "conversational" side with a bit of theory sometimes delving deeper than necessary, leaving more questions than answers. If you're the "studious type" the questions raised can be answered, but not in this book. It gives a lot of fundamental information at the beginning, then some tube stuff, ending with designs the author pats himself on the back for (just because the patent office issued a patent doesn't mean the idea is good). I bought this out of curiosity more than needing the theory (I'm a degreed EE and have designed my fair share of tube circuits in the last 25 years). An experienced person might raise an eyebrow a time or two when reading through this, someone starting out will get meaningful use but if serious will out grow this book in no time. The designs presented are okay for conversation but there are so many better approaches to most of what is presented one would do better looking elsewhere for a construction project (and no, I have no desire whatsoever to get into a debate about the merits of the designs one way or the other).

If you know all about electronics, tubes and electricity and only want schematics without too much

explanation this book is not for you. If you want to learn, build and know why and how it works this book is for you. I built the 300B and went online to the transcendsound forum pages for the latest updates and wow do I have a system now. Mr Rozenblit is a no no nonsense engineer who designs reasonable priced equipment which can compete with the best. A must read book and start building.

I wish Bruce would write more books. This is an EXCELLENT primer in tube physics, how things work and WHY, and is a MUST READ. It ALSO includes schematics to build a few preamps, amps, and even a couple of tube testers. Highly recommended!

I was one of the first persons to buy this book so I have had a lot of time with it. I have been involved in tube electronics for over 40 years and have built kits and modified existing tube preamps and amplifiers but never fully understood how the different components worked with each other or how to size them. This book answered almost all of my questions in a simple straight forward way. One thing about this book, a lot of information is contained in a very few words so every time I reread a section I locate information that I thought he did not cover. Worth every penny.

Bruce Rozenblit is a superb engineer who has designed amazing amplifiers for DIYers. I bought this book chiefly as I wanted the designs for his latest and greatest amps (I have built 3 others, 1 from his earlier book 'Audio Reality' and 2 from his website). Every one has been a marvel. If you want some of the best value in audio available and don't want the hassle of sourcing your own parts, buy his kits. If you like to do everything your self, buy the book and implement his designs. You won't be sorry.

Great book. Fast delivery. Recommended!

This book alone covers more than half the content of an EET degree at a two year school and then embarks on that which is no longer taught; the science of vacuum tubes. Amazing and technically challenging work!

Purchased this for information about constructing a tube tester but this book contains a wealth of tube theory and information. Well worth the money!

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