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Psychoacoustics of Loudspeakers and Rooms 1st Edition by Floyd Toole, (Focal Press, 2008) 10.

Basic Electricity (Dover Books on Electrical Engineering) 2nd Edition by Bureau of Naval Personnel (Dover Publications, 1970) 11.

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is written for students, technicians, engineers and hobbyists seeking an overview of the technology of loudspeakers.

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Introduction To Loudness and proceeds to develop the idea of a loudspeaker as a system. The book covers such topics as loudspeaker design tradeoffs, spatial loading, diffraction loss, cavity effect and enclosure construction. A complete chapter is devoted to the subject

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of crossover design including design equations. The second edition adds a new chapter on simulation and analysis which includes design equations for closed and vented type speakers. The appendices contain technical references, design aids,

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glossaries and a chart depicting 18 different loudspeaker enclosure types. The author is a physicist/audio design engineer with over 35 years experience in the research and development of audio products spanning both hardware and software. His

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TrueRTA and DATS software applications are widely used throughout the audio industry as tools for simulating and measuring loudspeaker performance. Captain Murphy served as a space systems analyst for NORAD during his military career. Changes for

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the Second Edition:
The second edition brings new material and polishes the first edition with many new or improved illustrations. Chapter 2 was expanded with the second half split into a new Chapter 3 titled "Speaker Response Functions." The discussion of Thiele-Small

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parameters has been expanded and now covers small-signal parameters vs. large-signal parameters as it explores the role of the test signal level in parameter measurement. The crossover design chapter has been expanded to include formulas for calculating

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component values for the most popular crossover types.

Equations have been added for calculating impedance compensation and

attenuation networks.

The old Chapter 7 FAQ material was integrated into other chapters as

appropriate. A new Chapter 8 titled

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"Loudspeaker Simulation" has been added and introduces loudspeaker equivalent circuit analysis with equations for calculating the magnitude and phase responses of closed and vented loudspeaker systems. Additional design equations are

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introduced and then examples are given for calculating the responses of a closed box and a vented box loudspeaker. Detailed design equation summaries are given for closed and vented boxes. Appendix C was added to provide a glossary of symbols and a glossary of terms. The box type

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charts were moved to
Appendix D.

Design Second
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In this book, Geoff Hill demonstrates modern software and hardware being applied to the processes behind loudspeaker design and modelling.

Modern computing

Page 50/75

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power has progressed to the point that such analyses are now practical for any interested individual or small company.

Loudspeaker
Modelling and Design:
A Practical

Introduction examines the process from initial concept through specifications and theoretical simulations

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and onto detailed design. It demonstrates the processes of design and specification, by using detailed simulations of a loudspeaker driver; sufficient to give reassurance that a design is practical and will perform as expected. This book brings together many

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different strands of modelling from electromagnetic through to mechanical and acoustic, without getting bogged down in theoretical discussions and arguments. This practice-based book shows the techniques used in designing modern loudspeakers and transducers.

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Advanced Speaker Designs shows the electronics hobbyist and the experienced technician how to create high-quality speaker systems for the home, office, or auditorium. Every part of the system is covered in detail, from the driver and crossover network to

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measure driver
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The prospect of writing a book on loudspeakers is a daunting one, since only a multivolume encyclopedia could truly do justice to the subject. Authors

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expertise, often
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professional
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Introduction and specification, and the emphasis in this book is on basic component design, operation, measurement, and system concepts. The book falls largely into two sections; the first (Chapters 1-9) emphasizing the building blocks of the art and the second

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(Chapters 10-16) To emphasizing applications, measurements, and modeling. While a thorough understanding of the book requires a basic knowledge of complex algebra, much of it is understandable through referring to the graphics. Every attempt has been

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made to keep graphics clear and intuitive. Chapter 1 deals with the basic electro-mechano-acoustical chain between input to the loudspeaker and its useful output, with emphasis on the governing equations and equivalent circuits. Chapter 2 is a survey of cone and

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domes drivers, the stock-in-trade of the industry. They are discussed in terms of type, design, performance, and performance limits. Chapter 3 deals with magnetics. Once a source of difficulty in loudspeaker design, magnetics today yields easily to modeling techniques.

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Chapter 4 discusses low-frequency (LF) system performance, primarily from the viewpoint of Thiele-Small parameters. We also discuss some of the multi chamber LF systems that became popular during the eighties.

This volume seeks to lay the groundwork for

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readers who want to understand the general functions of loudspeaker enclosure systems and eventually experiment with their own designs. Written for design engineers and technicians, students, and intermediate-to-advanced acoustics enthusiasts, it presents a general

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theory of loudspeaker enclosure systems. Featuring illustrated and numerical examples, the book examines diverse developments in enclosure design, and studies the various types of enclosures as well as varying parameter values and performance optimisation. Topics

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examined include: the synthesis of vented systems; infinite-baffle and closed-box systems; electro-acoustical relations; and reflex response relationships.

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performance are endless. Great Sound Loudspeaker Stereo Speakers Design, Second Edition, by David Weems and G.R. Koonce, eliminates much of the guesswork--not to mention the ripping out of parts and trying of alternative values--associated with proper design.

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