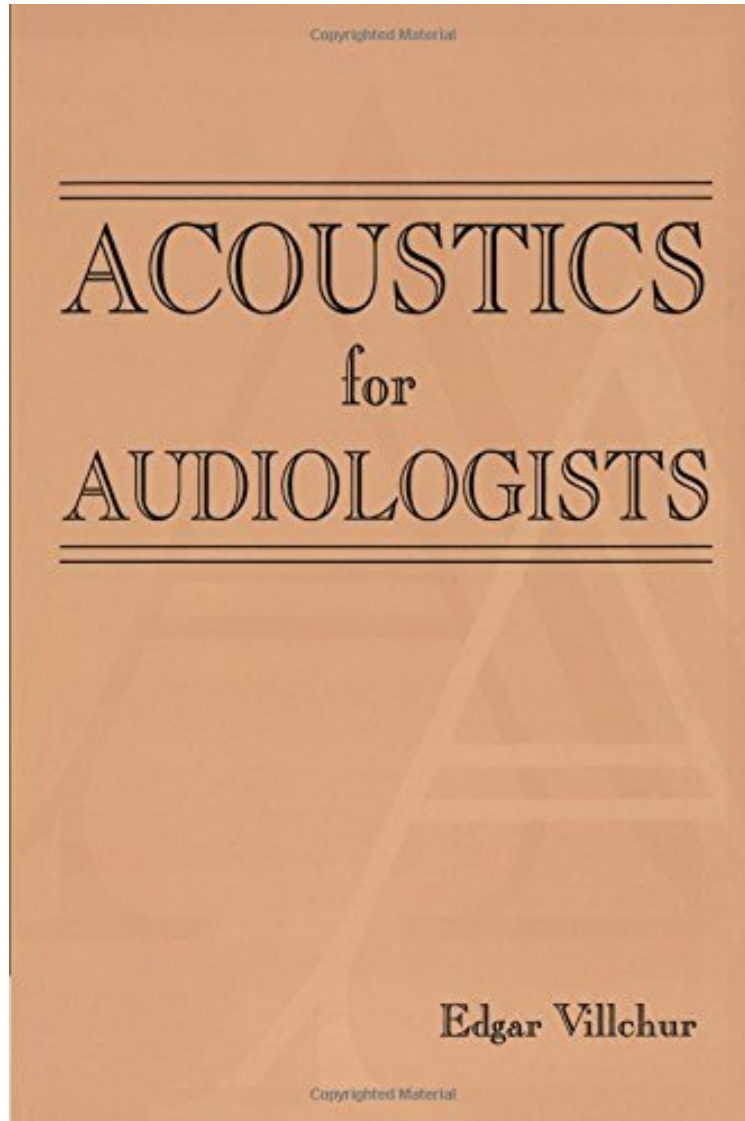


[Mobile pdf] Acoustics for Audiologists (Singular Audiology Text,)

Acoustics for Audiologists (Singular Audiology Text,)

Edgar Villchur

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Edgar Villchur : Acoustics for Audiologists (Singular Audiology Text,) before purchasing it in order to gage whether or not it would be worth my time, and all praised Acoustics for Audiologists (Singular Audiology Text,):

1 of 1 people found the following review helpful. Excellent Book on the Basics of Aoustic PinciplesBy ARHPGEdgar Villchur, former President and Director of Research at path-finding Acoustic Research, Inc., has been not only a pre-eminent engineer and scientist in the field of acoustics, but an excellent teacher and writer. In the field of high-fidelity loudspeakers, Villchur was credited with inventing the acoustic-suspension loudspeaker (the AR-1 in 1954), now the

standard low-frequency methodology used worldwide. By 1959 Villchur introduced the first commercial hemispherical ("dome") high-frequency tweeter. This design, incorporated in the AR-3 loudspeaker, has been considered to be one of the most accurate transducers ever designed, and an example of this loudspeaker is on permanent display in the Smithsonian Institution's Museum of American History. Villchur also designed a widely-copied turntable and arm before retiring to his work in hearing aids. He founded the nonprofit Foundation For Hearing Aid Research in Woodstock, New York. It is Villchur's almost unique ability to synthesize difficult scientific principles into easily-understood ideas and concepts that makes his books so enjoyable. His current book parallels his former books and articles in this respect, and this rare ability makes this a must-read book for those interested in understanding more about the basic principles of acoustics. This book should be in every audiologist's library. 2 of 2 people found the following review helpful. Good overview in a small package! By A Customer Searching for a review or basic overview of acoustics geared toward audiology was difficult before this book was released. In a small (affordable!) paperback package, this book encompasses most aspects of acoustics important to audiologists, from the physics of sound, audiologic measurement of sound, and acoustic properties of hearing aids. A great supplement to any budding or practicing audiologist's library.

This book is devoted to the acoustical principles that underlie the design and fitting of hearing aids. It includes coverage of basic acoustics, including a full, but mostly nonmathematical discussion of the decibel unit, air-coupled and Helmholtz acoustical resonance, horns, the effect of the acoustical transmission path of the ear on hearing-aid response, psychoacoustics, amplification systems of hearing aids (including signal processing and class D and digital circuitry), and noise-reduction system. These subjects are discussed in terms of their specific applications to the design and fitting of hearing aids. The book presents the information in simple understandable terms.

About the Author Director of Research, Foundation for Hearing Aid Research