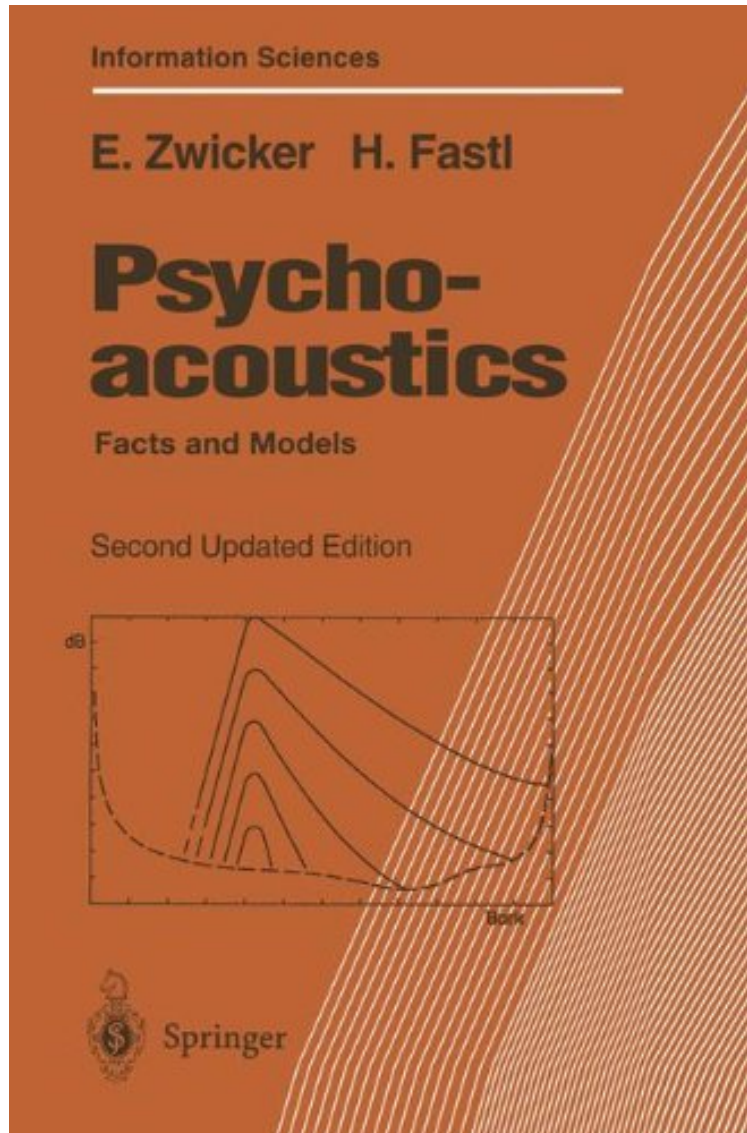


[FREE] Psychoacoustics: Facts and Models (Springer Series in Information Sciences) (v. 22)

Psychoacoustics: Facts and Models (Springer Series in Information Sciences) (v. 22)

Eberhard Zwicker, Hugo Fastl

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Eberhard Zwicker, Hugo Fastl : Psychoacoustics: Facts and Models (Springer Series in Information Sciences) (v. 22) before purchasing it in order to gauge whether or not it would be worth my time, and all praised Psychoacoustics: Facts and Models (Springer Series in Information Sciences) (v. 22):

8 of 8 people found the following review helpful. Be Ready to Get Hammered With Information By TonyS Zwicker is a

major name in Psychoacoustics. He references his own publications in the field well over 100 times in this book. This book is probably the most comprehensive collection of psychoacoustical information I have seen to date. As with all works, it starts with a description of sound and the human auditory system, and then moves into how the two entities interact and how perception is modeled by this. The discussion is very technical, and he has an average of one graph per page. I do not recommend this book to anyone not interested in the details of how psychoacoustics evolve. It is also nice that he includes a methods section, as one would do in a technical journal. This describes how the data that he is presenting was obtained, and adds a load of credibility to the work. Also most of the data presented is empirical, from experiments themselves. The amount of research underlying this work is huge. My one complaint is the pace varies a bit, but not too bad. Some parts seem fast, others seem slow. Overall however, this is a great book for technical readers. I personally found this book tremendously useful. 1 of 1 people found the following review helpful. Five Stars By David G Cason excellent resource 8 of 9 people found the following review helpful. Ever wanted to understand human hearing? By David Benson Eberhard Zwicker was one of the great names in psychoacoustics. This book, written with his student Hugo Fastl, is an excellent introduction to psychoacoustics, and presents a modern account with a great deal of qualitative and quantitative information. The second edition has been updated by Fastl. I would have liked to see more discussion of the relationships with the psychology of music, but there are now several good books available on this subject, especially a collection of essays edited by Diana Deutsch and another edited by Perry Cook.

Psychoacoustics - Facts and Models represents a comprehensive collection of data describing the processing of sound by the human hearing system. It includes quantitative relations between sound stimuli and auditory perception in terms of hearing sensations. In addition, quantitative psychoacoustic models of hearing sensations are given. The monograph contains a unique collection of data on the human hearing system as a receiver of acoustic information as well as many examples of the practical application of the results of basic research in fields such as audiology, noise evaluation, and sound engineering. Many helpful hints for the solution of practical problems will be of particular benefit to engineers, and the book as a whole should serve as an important benchmark in the field of psychoacoustics. The treatment given in this second edition has been thoroughly updated with recent results.

"[The book] contains the most comprehensive collection of psychoacoustic facts and models that I know.... for advanced students, researchers and experts, it is an essential source of psychoacoustic knowledge . . . I do recommend it." -Applied Acoustics "This volume is no ordinary textbook, but a major landmark . . . The publication of this volume must be regarded as a major event, and the book should find a place on the shelves of every acoustician with a concern for the perception of sounds." -Journal of Sound and Vibration "...It can be sincerely stated that this book contributes most significantly to the distribution of expert knowledge on the auditory system to science, technology, and practice. It will without doubt have a long-lasting effect on the standing and future evolution of this scientific domain." -Acustica "[The book] never presents data without a great deal of thought and sense of purpose. Data are chosen to demonstrate the operation of basic perceptual models It is of great value to see how far a rigorous and systematic application of these fundamental ideas can go in explaining the richness of human auditory experience and this is the special significance of [this book]." - Physics Today