Room Acoustics, Fourth Edition

Heinrich Kuttruff
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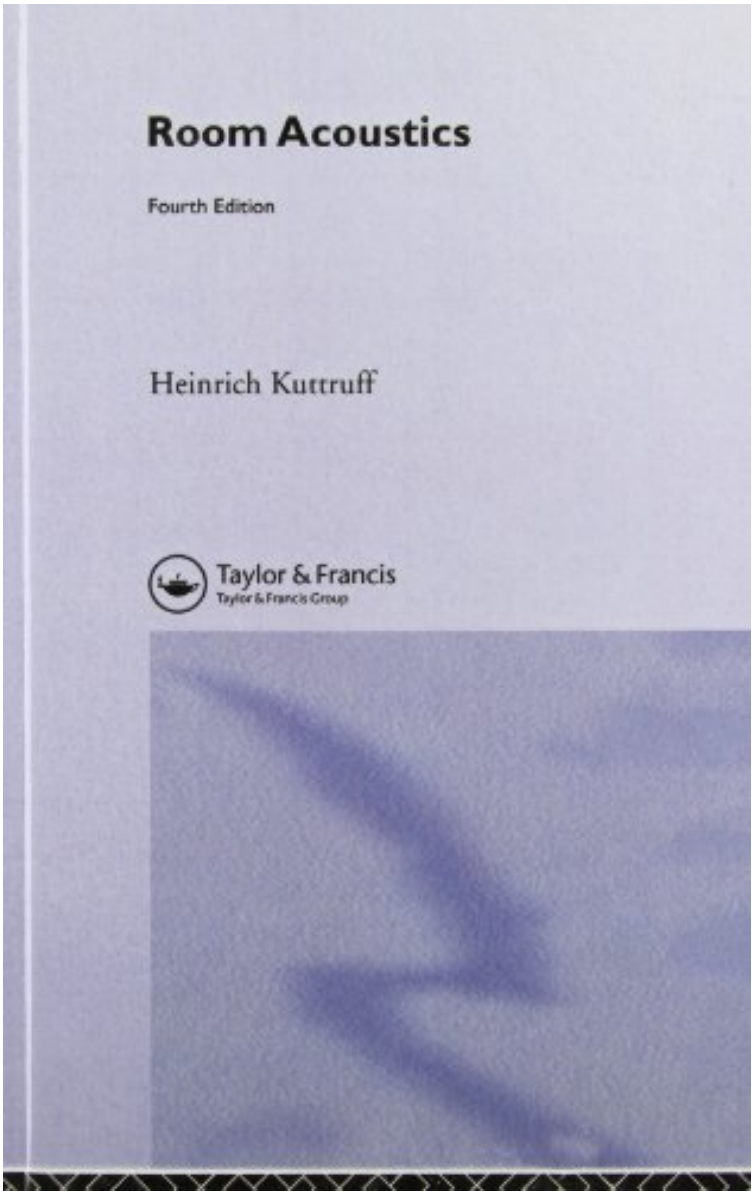

#4409390 in Books 2000-10-17Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 .86 x 6.40 x 9.54l, 1.64 #File Name: 0419245804364 pages | File size: 28.Mb

Heinrich Kuttruff : Room Acoustics, Fourth Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Room Acoustics, Fourth Edition:

3 of 3 people found the following review helpful. A rare find, a book that's really about room acousticsBy Art NoxonI work with small room acoustics and am very happy to add this book to my collection. It is an unusual acoustic book in

that it is only about the acoustics of rooms. It stands in high contrast to many acoustic books, which usually have only one chapter on small and another on large room acoustics.Incidentally, I thought I was buying the 5th edition but managed to end up with the 4th edition, so my comments only apply to the 4th edition.I like the clarity given to the effect wall impedance has on standing waves. I didn't see the effect on bass induced wall vibration as it modulated high frequency reflection. Nor did I notice any effort towards structural damping of room surfaces, and the consequences of not damping them.I haven't seen a discussion on subjective difference between phase aligned vs phase distorted types of diffusion, which is an important modern issue. The work meanders between large and small room acoustics. Lots of large room acoustic work has been done elsewhere, not much seems new there but the small room acoustics part of the work is significant and contributes to the area of my interest.Steady state and RT60 perspectives are typical but here some effort is made to clarify what is happening during the attack transient stage. Using image modeling, sound level overshoot point is described, but in a simplified way, limited to one dimension. Much more can be done here. Even so, it begins to move into the dynamic region of room performance.I loved the MTF treatment, modulation transfer function, how reverberation lowers the MTF. MTF is a great descriptor in speech as shown here but it is also critical in musical performance and this is not brought up. At least MTF is being presented as part of the big picture....Much more work in this area is needed.I liked the effort at defining resonator absorption, something totally lacking in most acoustic books. I also liked that correlation measurements are being presented as being relevant to the listening experience. I liked the spaciousness treatment, particularly important for listeners.I was hoping to see serious work done with high power audio systems in small rooms, but that didn't happen. All in all, I'm very happy to find this jewel. It must have been a breakthrough book in the 70's and still has lots of good information and conceptual understandings that continue to apply to today's efforts in dealing with small room acoustics. Now, I want to at least skim the 5th edition, to see what areas of small room acoustics have been further developedAuthor Heinrich Kuttruff's breadth and depth in his work is humbling, but not overwhelmingly. Rather, in a way which reassures and supports one's effort to press on. I'm happy that, through his book, I get to share in his good work. I'm looking forward to a lot more reading and discovering as I continue on with this book.Art NoxonAcoustic Engineer1 of 15 people found the following review helpful. Great BookBy A CustomerThis is the book to own for your acoustical reference manual. This one belongs on your shelf.

This thoroughly revised and long awaited new edition builds on the success of the 1991 third edition. This classic reference text considers the theory and practice of sound behaviour in closed spaces; a key area for acoustical engineers worldwide. It is of particular interest to those working on auditoria and will therefore stand as an excellent complement to Barron's Auditorium Acoustics. This new edition includes important new material on the growth of digital technology and sound intensity.