

Master handbook of acoustics

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Auteur(s) : Everest, F. Alton

Autre(s) auteur(s) : Pohlmann, Ken C.

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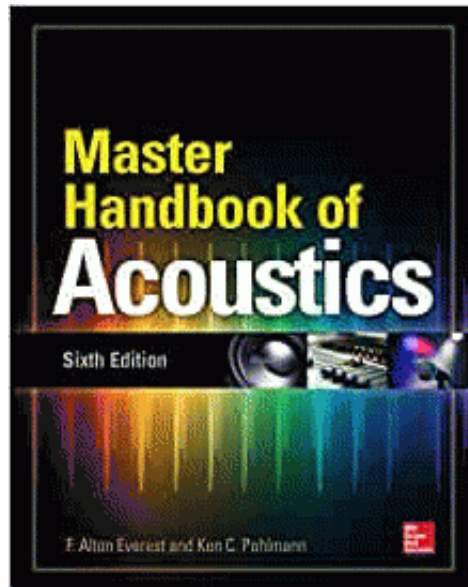
Note sur le contenu : Introduction 1. Fundamentals of Sound 2. Sound Levels and the Decibel 3. Sound in the Free Field 4. The Perception of Sound 5. Signals, Speech, Music, and Noise 6. Reflection 7. Diffraction 8. Refraction 9. Diffusion 10. Comb-Filter Effects 11. Reverberation 12. Absorption 13. Modal Resonances 14. Schroeder Diffusers 15. Adjustable Acoustics 16. Sound Isolation and Site Selection 17. Sound Isolation : Walls, Floors, and Ceilings 18. Sound Isolation : Windows and Doors 19. Noise Control in Ventilating System 20. Acoustics of Listening Rooms and Home Theaters 21. Acoustics of Home Studios 22. Acoustics of Small Recording Studios 23. Acoustics of Large Recordings Studios 24. Acoustics of Control Rooms 25. Acoustics of Audio/Video Rooms 26. Acoustics of Large Halls 27. Acoustical Distortion 28. Room Acoustics Measurement Software 29. Room Optimizer 30. Room Auralization

Résumé ou extrait : Design and construct audiophile-quality sonic environments of all sizes-from home theaters and project studios to large-scale recording studios. Thoroughly revised to include new acoustical design techniques, Master Handbook of Acoustics, Sixth Edition, explains the art and science of room acoustics and architecture by combining theoretical instruction with matter-of-fact engineering advice. Written by renowned experts in the field and refined through several editions, this fully updated classic describes the fundamentals of acoustical properties, as well as the latest solutions to acoustical problems. Throughout, this authoritative text provides clear explanations, describes hands-on techniques, and features numerous room designs that can be built as presented, or adapted to your particular needs : Understand how sound waves travel in free fields and in enclosed spaces ; Learn how human sound perception and psychoacoustics affect room design ; Calculate and predict reflections, reverberation times, and room modes ; Perform acoustical measurements and site surveys, and choose construction materials ; Design, build, and install treatment modules to optimize early reflections, reverberation, and diffusion ; Design and build home theaters, home studios, control rooms, recording studios, and other

acoustically sensitive spaces ; Reduce HVAC noise levels, and achieve excellent sound isolation with proven wall, window, and door designs ; Understand the acoustics of auditoriums and concert halls Utilize the supplied cost-effective plans and specifications for a variety of recording and listening rooms. [Source : d'après la 4e de couverture]

Sujet(s) : Son

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