

# SOUND & ACOUSTICS

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## KEYWORDS

Acoustical ceilings, Acoustical wall panels, Ambient sound, Architectural acoustics, Audio engineering, Audiology, Audiometry, Auditory perception, Aural spaces, Baffles, Bioacoustics, Blend, Clarity, Decibels, Diffraction, Diffusers, Echoes, Fullness, Geoacoustics, Infrasound, Intimacy, Listening, Liveness, Nature sounds, Noise, Noise abatement, Noise barriers, Noise control, Noise pollution, Psychoacoustics, Reflected wave, Reverberant sound, Reverberation time (RT), Side scan sonar, Signal processing, Sonic measuring, Sound, Sound absorbent materials, Sound absorption, Sound barriers, Sound design, Sound in art, Sound masking, Sound perception, Sound sculpture, Soundproofing, Ultrasound, Vibrations, Warmth

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## TOOLS TO GET STARTED

Crocker, *Encyclopedia of Acoustics*, QC-221.5.E53 1997 volumes 1-4  
 Find Sounds, <http://www.findsounds.com/> ("The search engine for finding sound effects on the Web")  
 Sadie, *New Grove Dictionary of Music and Musicians*, Reference-ML-100.N48 volumes 1-20  
 WWW Virtual Library Acoustics & Vibrations, <http://www.ecgcorp.com/velav/>  
 Yahoo! Acoustics, <http://dir.yahoo.com/Science/Acoustics/>

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## ACOUSTICS A - Z:

### ACOUSTIC ENVIRONMENTS

Chelkoff, "Imaginaire sonore et environnement urbain," *Cahiers de la recherche architecturale*, #38-9, 1996  
 Fisher, "The Value of Natural Sounds," *The Journal of Aesthetic Education*, #3, Fall 1999  
 Fisher, "What the Hills are Alive with: in defense of the sounds of nature," *The Journal of Aesthetics and Art Criticism*, Spring 1998  
 Mastin & Porteous, "Soundscape," *Journal of architectural and planning research*, September 1985  
 The Nature Sounds Society, <http://www.naturesounds.org/>  
 The New Soundscape Newsletter, <http://interact.uoregon.edu/MediaLit/FC/WFAENSL/menu.html>  
 Schafer, *The soundscape : our sonic environment and the tuning of the world*, ML3805 .S3 1994  
 Sound Maps, <http://interact.uoregon.edu/MediaLit/FC/research/sound.html#1> (Links)  
 A Sound Walk Across California, <http://www.museumca.org/naturalsounds/> (from the Library of Natural Sounds, Oakland Museum)  
 "Special issue: the acoustic quality of urban space," *Architecture & comportement*, # 1, 1991 (Theme issue)  
 Truax, *Handbook for Acoustic Ecology*, 2<sup>nd</sup>, 1999  
 Windeyer, Acoustic Map of Downtown Toronto, <http://www.inforamp.net/~windeyer/TOSoundwalkMAP.html>  
 World Forum for Acoustic Ecology, <http://interact.uoregon.edu/MediaLit/WFAEHomePage> (Excellent. Exhaustive resources & links)

### ACOUSTICS (GENERAL)

Acoustical Society of America, <http://asa.aip.org/>  
 Acoustics and Vibrations WWW Virtual Library, <http://www.ecgcorp.com/velav/>  
 Acoustics FAQ, <http://www.campanellaacoustics.com/faq.htm>  
 Beranek, *Acoustics*, 1954  
 Blackstock, *Fundamentals of Physical Acoustics*, 2000

*Encyclopedia of Acoustics*, QC211.5.D53 1997  
Filippi et al., *Acoustics: basic physics, theory and methods*, 1998  
Fraser, *Lighting and Sound*, PN2091.E4F7 1993  
Jeans, *Science and Music*, ML3805.J4 1968  
Kinsler et al, *Fundamentals of Acoustics*, 3<sup>rd</sup>, 1982

#### ARCHITECTURAL ACOUSTICS

"Acoustique," *Cahiers du centre scientifique et technique du bâtiment*, June 1986 (Theme issue)  
Beranek, *Music, Acoustics & Architecture*, 1962  
Beranek, *Opera and Concert Halls: how they sound*, NA2800.B39 1996  
Cremer, *Principles and Applications of Room Acoustics*, NA2800.C713 1982 volumes 1-2  
D'Antonio, "Controlling Sound Reflections," *Architecture*, June 1989  
Doelle, *Environmental acoustics*, NA2800 .D62  
Egan, *Architectural Acoustics*, Reference-TA-365 .E33 1988  
Egan, *Concepts in Architectural Acoustics*, NA2800.E34 1972  
Holden, "Acoustics for Small Spaces," *Progressive Architecture*, April 1991  
Izenour, *Theater Technology*, 2<sup>nd</sup> ed., NA6821.I947 1996  
"Klang und Raum = Sound and Space," *Kunst und Kirche*, #1, 1995 (Theme issue on sound in churches)  
"Lärm," *Bauwelt*, May 25, 1990 (Theme issue)  
Lord, *Detailing for Acoustics*, 3<sup>rd</sup>, TH2031.T46 1996  
"Luminous bodies: on the production of atmospheres," *Daidalos*, #68, 1998 (On sound and lighting in design)  
Sabine, *Collected Papers on Acoustics*, 1964  
Siebein, "Listening to Buildings (Architectural acoustics research group)" *Progressive Architecture*, July 1994  
Sullivan, "Digitizing Acoustic Designs," *Architecture*, November 1996  
"Technics," *Progressive Architecture*, April 1991 (3 article special section)  
Templeton, *Acoustics in the Built Environment*, 1993  
"Ton-Räume = Sound spaces," *Daidalos*, #17, 1985  
Wagner, "Prison Sound," *Interiors*, March 1993  
Wagner, "Sound Literature (resources on the subject of acoustics)" *Interiors*, June 1990  
Wagner & Paoletti, "Acoustics: guidelines for controlling sound in restaurants," *Interiors*, December 1987  
Yahoo! Acoustical products,  
[http://dir.yahoo.com/Business\\_and\\_Economy/Business\\_to\\_Business/Construction/Finishes\\_and\\_Coverings/Acoustical/](http://dir.yahoo.com/Business_and_Economy/Business_to_Business/Construction/Finishes_and_Coverings/Acoustical/)

#### NOISE CONTROL

Active Noise Control FAQ, <ftp://rtfm.mit.edu/pub/usenet/news.answers/active-noise-control-faq>  
Ambrose, *Simplified Design for Building Sound Control*, 1995  
Beranek & Ver, *Noise and Vibration Control Engineering*, 1992  
Bies, *Engineering Noise Control*, 1996  
Farrell, "Masking noise : silence is golden, privacy is pink," *Progressive Architecture*, November 1967  
Harris, *Builder's Guide to Noise Control*, 1996  
Harris, *Handbook of Noise Control*, 2<sup>nd</sup>, 1979  
Harris, *Shock and Vibration Control*, 1995  
Highway Noise Barrier manufacturers, <http://www.thebluebook.com/cl/all874.htm>  
Institute of Noise Control Engineering, <http://users.aol.com/inceusa/ince.html>  
Irvine, *Acoustics and Noise Control Handbook for Architects and Builders*, NA2800.I78 1998  
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Kryter, *The Effects of Noise on Man*, 1970  
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Noise Net, <http://www.noisenet.org/>  
Noise Pollution Clearinghouse, <http://www.nonoise.org/>  
Orefice, "Insulation problems. Acoustics: which materials?" *Abitare*, February 1996  
Rosenberg, "Blocking the bombardment of noise," *Architecture*, March 1989  
"Some particular problems of noise control," *Architectural Record*, September 1968  
Szenasy, "Electronic clutter," *Metropolis*, October 1987

#### PSYCHOACOUSTICS

Blauert, *Spatial Hearing; psychophysics of human sound localization*, QP-469.B5413 1996

Bregman, *Demonstrations of Auditory Scene Analysis: perceptual organization of sound* (audio CD), QP-465.B74 1990  
Griffin, *Handbook of Human Vibration*, 1996  
Helmholz, *On the Sensations of Tone*, ML3820.H42 1954  
Moore, *An Introduction to the Psychology of Hearing*, 3<sup>rd</sup>, 1989  
Zwicker, *Psychoacoustics: facts and models*, 1999

#### SOUND & HEARING

Asimov, *Understanding Physics: Motion, Sound and Heat*, QC--23.A8 v. 1  
Beales, *Noise, Hearing and Deafness*, 1965  
Lewis, *Bioacoustics: a comparative approach*, 1983  
Rayleigh, *Theory of Sound*, QC--23.R262 1945 volumes 1-2  
Retzius, *Das Gehörorgan der Wirbelthiere*, 1884 (Classic on the evolution of anatomy of the ear)  
Stevens & Davis, *Hearing*, 1938  
Stevens & Warshofsky, *Sound and Hearing*, 1965

#### SOUND ART

Carter, "Flat sounds, mountainous echoes: sound sculptures and environments," *Transition*, #40, 1993  
Disquiet, <http://www.disquiet.com/>  
Kahn & Whitehead, *Wireless imagination : sound, radio, and the avant-garde*, NX-650.S68 W57 1992  
Lanza, *Elevator Music; Surreal History*, 1994  
Muszak, <http://www.muzak.com/>  
"News from Planet Sound," *Art Press*, March 1996  
A Site for Sore Ears, <http://www.southern.com/mmm/music/ambienttechno/zines/index.html>  
*Sound; an exhibit of sound sculpture*, NB-198.5.S68 S68 1979  
"Sound Art," *Artweek*, August 1996 (Theme issue)  
"Sound Sculpture," *Leonardo*, #2, 1987 (Theme issue)  
Soundsite, <http://autonomous.org/soundsite/> (Online journal)

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