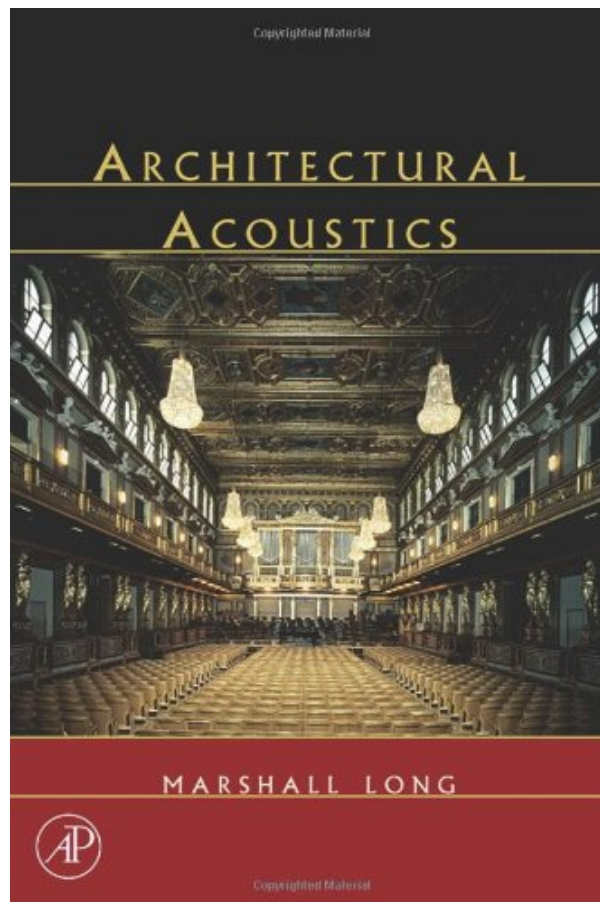


**ARCHITECTURAL ACOUSTICS
(APPLICATIONS OF MODERN ACOUSTICS)
BY MARSHALL LONG**



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Architectural Acoustics offers a comprehensive overview of acoustical science at a level suitable for either advanced undergraduate or introductory graduate courses in architectural design and architectural engineering. The text is organized according to how sound interacts with built structures, going from simple geometries through complex building structures. The book begins with a brief but useful history of architecture and the role of acoustics, as well as overview of human perception of, sound, and then progresses through topics ranging from acoustic measurement, noise metrics and environmental noise, to sound in enclosed spaces, sound transmission in buildings, vibration and vibration isolation, and noise in mechanical systems.

Architectural Acoustics also includes more advanced chapters on specific design problems, including treatment of multifamily dwellings, office buildings, sound reinforcement systems, rooms for music, multipurpose rooms, auditoriums, sanctuaries, and studios and listening rooms. Also covered is the theory loudspeaker systems and sound system modeling as well as in-depth presentation of computer modeling, ray tracing and auralization.

* Comprehensive guide to the basics of acoustical science and its applications to architectural design.

* Author is renowned expert engaged in acoustical engineering for 20 years

* Covers the latest environmental regulations and health and safety research related to sound inside and outside of buildings.

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Most helpful customer reviews

20 of 21 people found the following review helpful.

Professional Review

By Leo Beranek

I have a copy of Long's Architectural Acoustics and have read a number of sections. The book is remarkably complete and Long has correctly embodied current literature. I recommend it for professionals and architects who have some mathematics. Leo Beranek

6 of 7 people found the following review helpful.

If you only buy one book on architectural acoustics.....

By Michael Brown

In his preamble the author refers to the fact this book took him more than 10 years to write. Given the level of detail and the comprehensive nature of this book, this is not surprising.

There may be better acoustical books available relating to specific niches of acoustics, such as Beranek and Barron's works on concert halls and there are certainly more simple introductions to the subject, such as Egan's book of the same name, but for anybody who doesn't mind grappling with some mathematical equations, this is definitely the best and most comprehensive book on this subject of the 15 or so that I possess.

Like the author, I am also a practicing acoustical consultant and a lecturer in this subject. It's probably splitting hairs, but I suspect that my architecture students might not respond well to this book due to the fact that the illustrations are generally limited to fairly simple black and white drawings and the mathematical approach may intimidate some, but for other acoustical consultants and engineers interested in the field of building acoustics, I would definitely recommend this text.

2 of 2 people found the following review helpful.

Excelent book on Acoustics

By yoyi

Having read some architectural acoustics books, I can recommend this one as one of the best. It is an excellent resource. In fact, I should not have spent some of my money on some oldie books, which were cheap but not as good.

This is an up to date book, and it is worth every penny you spend. If you are a student or someone interested in the topic architectural acoustics, it is a good resource but it has many formulas (sorry if you do not like physics).

With it I have been able to specify to an architect who does not know hardly anything about acoustics how to correct his design for a contemporary church. I also recommend "Handbook for Sound Engineers" as a compliment to this book, for people that are trying to get the best of both worlds -- acoustics and audio.

These are both good buys, and can help you very much. Remember that to be a good consultant you need to have a good library of books and this one would be an excellent part of your reference library.

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