



# Architectural Acoustics Illustrated

*Michael Ermann*

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## **Architectural Acoustics Illustrated** Michael Ermann

Unite the science of sound and the principles of design to enhance any space

"Architectural Acoustics Illustrated" translates the quantitative and qualitative content of acoustics into the graphic language of architecture. This highly-visual guide includes over 350 illustrations that outline the physics of sound and the best design practices for limiting or mitigating noise in buildings by using the latest in materials and techniques. Each chapter includes a summary checklist of design guidelines to help prevent mistakes and oversights, and the Instructor's website offers video animations demonstrating acoustical concepts. Designed as a "first look" at the interaction of sound and space, the book explains the principles of architectural acoustics and their practical applications, providing a comprehensive guide for designing with acoustics in mind.

Architectural acoustics is more than just concert halls - it may determine building placement, division of interior space, exterior construction, and even siting. When addressed early in the design process, the resulting space can be free of unwanted sound and promote good hearing; if left unaddressed, the problems with the space can lead to lawsuits and costly post-construction remediation. "Architectural Acoustics Illustrated" helps designers solve most acoustical problems in advance, by enabling readers to: Understand the physical science underlying the behavior of sound Consider the interactions of sound and space in the initial design approach Mitigate building sounds such as those produced by HVAC and plumbing with early design planning Design spaces for listening, and incorporate acoustics best practices into every plan

The highly visual format of the book helps readers grasp complex concepts quickly, and thorough discussion of each concept's real-world application ties the science directly into the design process. All design professionals need to have a fundamental understanding of acoustics, and "Architectural Acoustics Illustrated" is a comprehensive, practical guide in an easy-to-read format.

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