



Architectural Acoustics Illustrated

By Michael Ermann

Download now

Read Online ➔

Architectural Acoustics Illustrated By 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.

 [**Download** Architectural Acoustics Illustrated ...pdf](#)

 [**Read Online** Architectural Acoustics Illustrated ...pdf](#)

Architectural Acoustics Illustrated

By Michael Ermann

Architectural Acoustics Illustrated By 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.

Architectural Acoustics Illustrated By Michael Ermann Bibliography

- Sales Rank: #898483 in Books
- Brand: imusti
- Published on: 2015-01-20
- Original language: English
- Number of items: 1
- Dimensions: 11.20" h x 1.00" w x 8.90" l, .0 pounds
- Binding: Hardcover
- 272 pages

 [Download Architectural Acoustics Illustrated ...pdf](#)

 [Read Online Architectural Acoustics Illustrated ...pdf](#)

Editorial Review

From the Back Cover

APPLY THE PRINCIPLES OF DESIGN TO THE SCIENCE OF SOUND

RECIPIENT OF THE VIRGINIA SOCIETY AMERICAN INSTITUTE OF ARCHITECTS 2014 PRIZE FOR SCHOLARSHIP AND DESIGN RESEARCH

Architectural Acoustics Illustrated translates the quantitative and qualitative content of acoustics into the graphic language of architecture. Important to performance space design—as well as surface material selection, room shaping and sizing, building placement and orientation, building skin and barrier composition, space planning, and architectural detailing—building acoustics begins at the earliest stages of schematic design and continues through construction administration. Better building acoustics makes better buildings and architectural acoustics needn't be a mystery.

This highly visual guide includes over 350 illustrations that outline the physics of sound and the established methods of mitigating unwanted noise in buildings. With authoritative guidance on the latest materials and techniques, topics include a summary checklist of acoustic design guidelines. The Companion website offers video animations that help readers to:

- Understand the fundamental behaviors and movements of sound, including sound level, propagation, and frequency
- Select building surfaces with sound absorption (or reflection) in mind
- Design to make music fuller and speech clearer
- Reduce unwanted noise from both within the room and from outside the room
- Master the calculations that direct acoustic design solutions

All design professionals should have a clear understanding of how sound and space interact, and *Architectural Acoustics Illustrated* is a comprehensive, practical guide designed for the visual learner.

About the Author

MICHAEL ERMANN is an associate professor at Virginia Tech's School of Architecture + Design, and a past undergraduate architecture program co-chairman. He teaches architectural acoustics, design studio, and environmental building systems. Prior to joining the VT faculty, Professor Ermann was an acoustical consultant at Artec in New York, NY and Siebein Associates in Gainesville, FL.

Users Review

From reader reviews:

Gussie Steller:

The e-book with title Architectural Acoustics Illustrated has lot of information that you can understand it. You can get a lot of help after read this book. This specific book exist new expertise the information that exist in this reserve represented the condition of the world right now. That is important to yo7u to find out

how the improvement of the world. This specific book will bring you within new era of the syndication. You can read the e-book on the smart phone, so you can read the item anywhere you want.

Jeffrey Drake:

Do you have something that you enjoy such as book? The e-book lovers usually prefer to pick book like comic, short story and the biggest an example may be novel. Now, why not attempting Architectural Acoustics Illustrated that give your entertainment preference will be satisfied by means of reading this book. Reading behavior all over the world can be said as the method for people to know world better then how they react toward the world. It can't be mentioned constantly that reading habit only for the geeky individual but for all of you who wants to become success person. So , for all of you who want to start examining as your good habit, you can pick Architectural Acoustics Illustrated become your personal starter.

Betty Norsworthy:

Your reading 6th sense will not betray you actually, why because this Architectural Acoustics Illustrated e-book written by well-known writer who knows well how to make book which can be understand by anyone who else read the book. Written with good manner for you, leaking every ideas and writing skill only for eliminate your current hunger then you still hesitation Architectural Acoustics Illustrated as good book not only by the cover but also with the content. This is one e-book that can break don't assess book by its protect, so do you still needing another sixth sense to pick this kind of!? Oh come on your examining sixth sense already said so why you have to listening to one more sixth sense.

Cynthia Tso:

The book untitled Architectural Acoustics Illustrated contain a lot of information on the idea. The writer explains the woman idea with easy method. The language is very simple to implement all the people, so do certainly not worry, you can easy to read it. The book was written by famous author. The author will bring you in the new era of literary works. It is easy to read this book because you can read more your smart phone, or device, so you can read the book in anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site along with order it. Have a nice examine.

Download and Read Online Architectural Acoustics Illustrated By Michael Ermann #EOYZ5HX48TG

Read Architectural Acoustics Illustrated By Michael Ermann for online ebook

Architectural Acoustics Illustrated By Michael Ermann Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Architectural Acoustics Illustrated By Michael Ermann books to read online.

Online Architectural Acoustics Illustrated By Michael Ermann ebook PDF download

Architectural Acoustics Illustrated By Michael Ermann Doc

Architectural Acoustics Illustrated By Michael Ermann Mobipocket

Architectural Acoustics Illustrated By Michael Ermann EPub