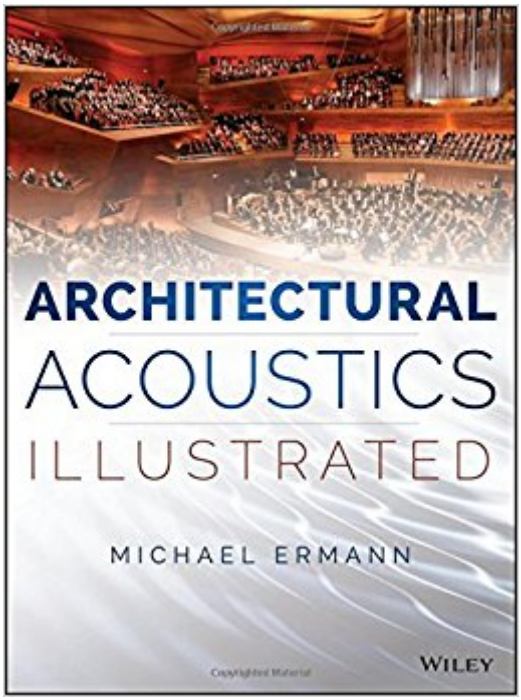
Ebook Directory
the best source of ebook

The book was found

Architectural Acoustics Illustrated



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

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 Ã¢â ¬â œ 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.

Book Information

Hardcover: 272 pages
Publisher: Wiley; 1 edition (January 20, 2015)
Language: English
ISBN-10: 1118568494
ISBN-13: 978-1118568491
Product Dimensions: 8.9 x 1 x 11.2 inches
Shipping Weight: 2.4 pounds (View shipping rates and policies)
Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #92,270 in Books (See Top 100 in Books) #30 inÃ Â Books > Engineering & Transportation > Engineering > Reference > Architecture > Methods & Materials #31 inÃ Â Books > Engineering & Transportation > Engineering > Civil & Environmental > Acoustics #47 inÃ Â Books > Science & Math > Physics > Acoustics & Sound

Customer Reviews

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.

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.

great book, title says it all ... ILLUSTRATED

Ermann has put together a wonderful update to books for Architectural Acoustics. His book is intended for readers that have not been exposed to architectural acoustics before. The reader does not need an engineering or advanced math background. The illustrations and "infographics" are beautiful, concise and easy to understand. It is now my first choice to use when exposing new people, who don’t have a strong math or engineering background, to the field of architectural acoustics.

Download to continue reading...

Acoustics of Musical Instruments (Modern Acoustics and Signal Processing) Architectural Acoustics Illustrated Architectural Graphic Standards (Ramsey/Sleeper Architectural Graphic Standards Series) Architectural Graphic Standards: Student Edition (Ramsey/Sleeper Architectural Graphic Standards Series) by Charles George Ramsey (Student Edition, 28 Mar 2008) Paperback Architectural Books in Early America: Architectural Treaties and Building Handbooks Available in American Libraries and Bookstores Through 1800 Speech Science Primer: Physiology, Acoustics, and Perception of Speech Preclinical Speech Science: Anatomy, Physiology, Acoustics, and Perception, Second Edition Sound Reproduction: The Acoustics and Psychoacoustics of Loudspeakers and Rooms (Audio Engineering Society Presents) Digital Audio and Acoustics for the Creative Arts Musical Acoustics, 3rd Edition Master Handbook of Acoustics, Sixth Edition Fundamentals of Physical Acoustics Building Acoustics The Acoustics of Performance Halls: Spaces for Music from Carnegie Hall to the Hollywood Bowl Fourier Acoustics: Sound Radiation and Nearfield Acoustical Holography Introduction To Sound: Acoustics for the Hearing and Speech Sciences (Singular Textbook Series) Phonetics: Transcription, Production, Acoustics, and Perception Underwater Acoustics: Analysis, Design and Performance of Sonar An Introduction to Environmental Biophysics (Modern Acoustics and Signal) Hearing: An Introduction to Psychological and Physiological Acoustics

Contact Us

DMCA

Privacy

FAQ & Help