

Architectural Acoustics By Marshall Long

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"Críticas ""The strength of the book lies in the breadth of material that it covers, and it will work as a starting point for anyone interested in any of the many topics that the author presents."" --**Journal of the Audio Engineering Society** ""...provides a comprehensive overview to the many aspects of architectural acoustics, sound isolation, equipment noise control and sound reinforcement systems, balancing both theoretical and practical considerations."" --**Noise Control Engineering Journal, July-August 2014** ""?a first-rate reference for consultants who practice architectural acoustics or for architects and engineers who are looking for a complete compilation on acoustical techniques."" --**International Journal of Acoustics and Vibration** Reseña del editor Architectural Acoustics, Second Edition presents a thorough technical overview of the discipline, from basic concepts to specific design advice. Beginning with a brief history, it reviews the fundamentals of acoustics, human perception and reaction to sound, acoustic noise measurements, noise metrics, and environmental noise characterization. In-depth treatment is given to the theoretical principles and practical applications of wave acoustics, sound transmission, vibration and vibration isolation, and noise transmission in floors and mechanical systems. Chapters on specific design problems demonstrate how to apply the theory, including treatment of multifamily dwellings, office buildings, rooms for speech, rooms for music, multipurpose rooms, auditoriums, sanctuaries, studios, listening rooms, and the design of sound reinforcement systems. Detailed figures illustrate the practical applications of acoustic principles, showing how to implement design ideas in actual structures. This compendium of theoretical and practical design information brings the relevant concepts, equations, techniques, and specific design problems together in one place, including both fundamentals and more advanced material. Practicing engineers will find it an invaluable reference for their daily work, while advanced students will appreciate its rigorous treatment of the basic building blocks of acoustical theory. Considered the most complete resource in the field ? includes basic fundamental relations, derived from first principles, and examples needed to solve real engineering problems.Provides a well-organized

text for students first approaching the subject as well as a reliable reference for experienced practitioners looking to refresh their technical knowledge base. New content for developing professionals includes case studies and coverage of specific focus areas such as audio visual design, theaters, and concert halls. Contraportada Solve the wide range of challenges encountered in acoustical design and consulting with this practical single-volume guide. Considered the most complete resource in the field ? includes basic fundamental relations, derived from first principles, and examples needed to solve real engineering problems. Provides a well-organized text for students first approaching the subject as well as a reliable reference for experienced practitioners looking to refresh their technical knowledge base. New content for developing professionals includes case studies and coverage of specific focus areas such as audio visual design, theaters, and concert halls.

***Architectural Acoustics, Second Edition* presents a thorough technical overview of the discipline, from basic concepts to specific design advice. Beginning with a brief history, it reviews the fundamentals of acoustics, human perception and reaction to sound, acoustic noise measurements, noise metrics, and environmental noise characterization. In-depth treatment is given to the theoretical principles and practical applications of wave acoustics, sound transmission, vibration and vibration isolation, and noise transmission in floors and mechanical systems. Chapters on specific design problems demonstrate how to apply the theory, including treatment of multifamily dwellings, office buildings, rooms for speech, rooms for music, multipurpose rooms, auditoriums, sanctuaries, studios, listening rooms, and the design of sound reinforcement systems. Detailed figures illustrate the practical applications of acoustic principles, showing how to implement design ideas in actual structures. This compendium of theoretical and practical design information brings the relevant concepts, equations, techniques, and specific design problems together in one place, including both fundamentals and more advanced material. Practicing engineers will find it an invaluable reference for their daily work, while advanced students will appreciate its rigorous treatment of the basic building blocks of acoustical theory. Biografía del autor Since 1971, Marshall Long has been engaged in acoustical engineering consulting as principal of the firm he founded. Based in California, USA, Marshall Long Acoustics, has established a national and international reputation, completing over 3,000 projects in architectural acoustics, noise and vibration control, environmental impact assessment, and audio visual design. With engineering degrees from Princeton and UCLA, Dr. Long has taught acoustical engineering courses at UCLA and Southern California Institute of Architecture, and has guest lectured at Cal State Long Beach and USC. He has published numerous papers and articles in the field of acoustics. The author has recently been awarded a US patent on the recording and reproduction of three-dimensional sound. For further information visit the firm's website at mlacoustics.com.**

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noise metrics and environmental noise to sound in enclosed spaces sound transmission in buildings

This book is an authoritative but uniquely accessible and highly illustrated guide to good acoustic design practice for architects interior designers and acoustic professionals it provides a user friendly introduction to architectural acoustics , marshall long in architectural acoustics second edition 2014 much of architectural acoustics can be addressed without consideration of the wave nature of sound for example environmental acoustics and the transmission of outdoor sound for the most part can be visualized and modeled as a flow of energy architectural acoustics presents a comprehensive technical overview of the field at a level suitable for working practitioners as well as advanced u.

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