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Architectural Acoustics, Second Edition presents a thorough technical overview of the discipline, from basic concepts to specific

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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

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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

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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,

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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

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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

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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

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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



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demonstrated capabilities, and proof of visual acuity. The examination tests the inspector's knowledge of welding processes, welding procedures, nondestructive examinations, destructive tests, terms, definitions, symbols, reports,

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welding metallurgy, related mathematics, safety, quality assurance and responsibilities. The only book of its kind, Geotechnical Testing, Observation, and Documentation is an in-depth field manual for soil technicians and

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field engineers. Designed to be used as a reference guide during the investigation, grading, and construction phases of a geotechnical project, this book provides solutions to actual geotechnical project situations.

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