

Environmental and Architectural Acoustics: A Comprehensive Guide for Architects and Engineers

Acoustics is the science of sound. It deals with the propagation, absorption, and reflection of sound waves. Environmental acoustics is the study of sound in the environment, while architectural acoustics is the study of sound in buildings.

This comprehensive guide to environmental and architectural acoustics provides a detailed overview of the principles and applications of acoustics in architectural design. The book covers a wide range of topics, including:



Environmental and Architectural Acoustics by Z. Maekawa

★★★★★ 5 out of 5
Language : English
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Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 588 pages



- Sound propagation
- Room acoustics
- Noise control
- Acoustics in architectural design

This book is an essential resource for architects, engineers, and anyone else interested in creating acoustically comfortable and aesthetically pleasing spaces.

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The first chapter of this book provides an overview of the field of acoustics. It discusses the basic principles of sound propagation, absorption, and reflection. It also introduces the concepts of environmental acoustics and architectural acoustics.

Sound Propagation

The second chapter of this book discusses the propagation of sound waves in air. It covers topics such as the speed of sound, the effects of temperature and humidity on sound propagation, and the reflection and absorption of sound waves.

Room Acoustics

The third chapter of this book discusses the acoustics of rooms. It covers topics such as the reverberation time, the sound level distribution in a

room, and the effects of room shape and materials on acoustics.

Noise Control

The fourth chapter of this book discusses noise control. It covers topics such as the sources of noise, the effects of noise on human health, and the methods for controlling noise.

Acoustics in Architectural Design

The fifth chapter of this book discusses the application of acoustics in architectural design. It covers topics such as the design of concert halls, theaters, and classrooms. It also discusses the use of sound in architecture to create a sense of place and to enhance the user experience.

This book is a comprehensive guide to environmental and architectural acoustics. It provides a detailed overview of the principles and applications of acoustics in architectural design. The book is an essential resource for architects, engineers, and anyone else interested in creating acoustically comfortable and aesthetically pleasing spaces.

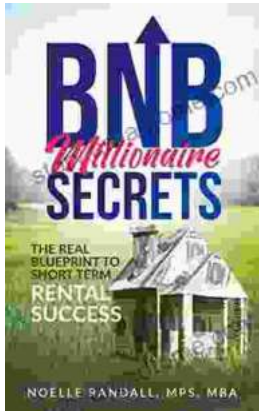


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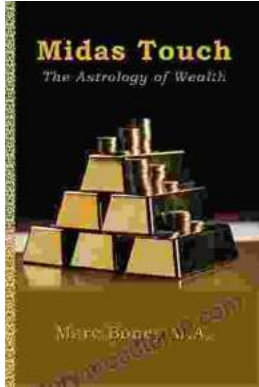
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