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tunnels, underground/railway stations, corridors, concourses and urban streets. The specific problems of such irregularly shaped spaces, ranging from noise pollution in streets and tunnels to poor speech intelligibility of public address systems in railway stations are not dealt with by classic room acoustic theory.

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Providing a wealth of information on fundamental topics in the areas of linear air and underwater acoustics, as well as space-time signal processing, this book

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provides real-world design and analysis equations. As a consequence of the interdisciplinary nature of air and underwater acoustics, the book is divided into two parts: Acoustic Field Theory and Space-Time Signal Processing. It covers ...

## **Fundamentals of Acoustic Field**

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## **Theory and Space-Time ...**

The free field is a region in space where sound may propagate free from any form of obstruction. 1.1.2.2. Near field

The near field of a source is the region close to a source where the sound pressure and acoustic particle velocity are not in phase. In this region the sound field does not decrease by 6 dB each



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## **1 FUNDAMENTALS OF ACOUSTICS - WHO**

Here are 10 spaces to remind us of architecture's acoustic abilities ... a two-decade long project to construct a pedestrian tunnel network beneath London's Thames river began. ... Keiko Sumida recently directed an opera in the

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space and speaks of 'an adventure-like feeling to the show.

## **10 buildings with extraordinary acoustics - The Spaces**

Nature of acoustics. In reality, there are some properties of acoustics that affect the acoustic space. These properties can either improve the quality of the sound

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or interfere with the sound. Reflection is the change in direction of a wave when it hits an object. Many acoustic engineers took advantage from this.

## **Acoustic space - Wikipedia**

Worship Sound Spaces unites specialists from architecture, acoustic engineering and the social sciences to encourage

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closer analysis of the sound environments within places of worship. Gathering a wide range of case studies set in Europe, Asia, North America, the Middle East and Africa, the book presents investigations into Muslim, Christian and Hindu spaces.

**WORSHIP SOUND SPACES |**

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## **Architecture, Acoustics and ...**

The largest real whispering wall I know of is 460 feet long—it is the concrete dam that withstands the Barossa Reservoir in South Australia. For some reason the dam was built to be a precise arc.

## **The acoustics of eavesdropping:**

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## **How curved ceilings and ...**

acoustics, as the sources of sound are themselves part of the alien world. However acoustics has three other roles in space exploration.<sup>1</sup> First, measurement of the propagation of signals generated by the probe itself can be used for range-finding, THE SOUND OF MUSIC AND VOICES IN SPACE PART 1:

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THEORY Timothy G. Leighton

## **THE SOUND OF MUSIC AND VOICES IN SPACE PART 1: THEORY**

Half wavelength theory would say that in order to have a flat room response down to 20 cycles, we need to have a room that has a room dimension of at least 30' in order to not have any side effects by

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cramming the long length of sound waves into a small room, because at least half of the wave will have the distance to run free twice, once up and once back.

## **Wavelengths In Our Rooms - Acoustic Fields**

Somewhere along the line, the acoustics



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of the space were ignored, or the acoustical treatment was cut because it was too expensive. For any space where speech and music are central to the purpose of the room, the acoustics of the space are as critical as having enough air conditioning, enough light, enough heat or enough seats.

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## **Reverberation Time - Consultants in Sound/Video/Acoustics**

Description. The acoustics of a space can have a real impact on the sounds you create and capture. Acoustics and Psychoacoustics gives you an essential grounding and understanding to how real music sounds behave in different spaces whether during a performance or

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a recording and how they are perceived by performers and listeners.

## **Acoustics and Psychoacoustics | ScienceDirect**

Acoustics Of Long Spaces Theory And Design Guidance underground/railway stations, corridors, concourses and urban streets. The specific problems of

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