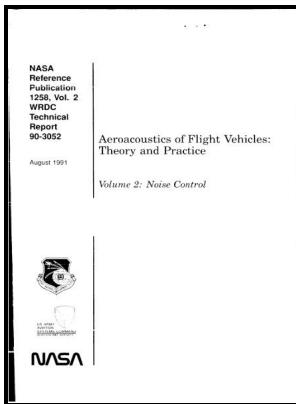


# Development and testing of cabin sidewall acoustic resonators for the reduction of cabin tone levels in propfan-powered aircraft

Langley Research Center - An Introduction To Power Plant Acoustics



Description: -

Turboprop aircraft

Helmholtz resonators

Cabin noise Development and testing of cabin sidewall acoustic resonators for the reduction of cabin tone levels in propfan-powered aircraft

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In operation the automatic search system defines the average noise level,  $F A, \phi$ , at the representative surface 17, as a function of secondary source input amplitude  $A$  and the phase difference  $\phi$  between the primary noise signal that is the propeller noise signature and the secondary noise signal.

## Sound Transmission Control of a Cylindrical Structure Using Acoustic Resonators

About 16% of all car accidents are a result of incorrect tire pressure. This method promises new insight into the time varying viscous effects associated with advanced propeller aerodynamics. The ID portion of the RFID can be in the form of a SAW Polyvinylidene Fluoride RFID Tag that can be manufactured at low cost or using a conventional memory.

[AASNZ2006: Noise of Progress](#)

The Raman-Nath diffraction occurs at a relatively low frequency since the sound speed is low, and the experiments were carried out at 510 kHz. With our experiments, we show that while both acoustic streaming and radiation pressure can induce the asymmetry of the droplet, global oscillations only appear when acoustic radiation is significant. Following sound through a crack C.

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If the vehicle also has a system as described below for monitoring each seat location, the number and perhaps the condition of the occupants could also be reported. The length of the duct may be 180-240 mm long which is 1.

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It is desirable, therefore, to determine that a vehicle component is about to fail as early as possible so as to minimize the probability of a breakdown and the resulting consequences. The second challenge store is to create an organizational system flexible enough to store variable datatypes stemming from a plethora of data sources including yet to be created social media platforms. Design a component to create the vibration at the target.

### **Sound Transmission Control of a Cylindrical Structure Using Acoustic Resonators**

It is also used to represent the mechanism which starts the burning of an initiator which in turn ignites the propellant within an inflator.

### **Sound Transmission Control of a Cylindrical Structure Using Acoustic Resonators**

The light rays reflected by the combiner are typically collimated to present an image of the information focused at optical infinity permitting the driver to simultaneously view the real world scene and the displayed information without changing eye focus. Campbell, A Strategy for Electronic Dissemination of NASA Langley Technical Publications, NASA TM-109172, December 1994, pp.

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