



Automobile engine noise reduction energy storage device

How to reduce IC noise in a motor vehicle?

It is known that the main source of noise in a motor vehicle (MV) is its power plant, in particular, the internal combustion engine (ICE). The article deals with the possibility of reducing IC noise by adjusting the clearances in the main and rod bearings of the ICE crankshaft. © 2022 The Authors.

How to reduce ice noise in a motor vehicle?

It is known that the main source of noise in a motor vehicle (MV) is its power plant, in particular, the internal combustion engine (ICE). The article deals with the possibility of reducing ICE noise by adjusting the clearances in the main and rod bearings of the ICE crankshaft.

Can advanced materials reduce noise in internal combustion engines?

The development and application of advanced materials have significantly enhanced the noise reduction capabilities of internal combustion engines (ICEs). These materials are engineered to absorb sound, reduce vibration, and control noise emissions more effectively than traditional materials.

How can smart materials reduce engine noise?

Smart materials that adapt to changing conditions can also actively reduce noise levels. Another important aspect is the design optimization of engine components, using computational tools such as computational fluid dynamics (CFD) to minimize noise generated by airflow and exhaust systems.

What are the different types of vehicle noise reduction technology?

Existing vehicle noise reduction technologies mainly include passive noise reduction and active noise reduction. The passive type has a significant effect on reducing mid- and high-frequency noise. The active control technology in active noise reduction technology is currently the most advanced and effective technology [1,2].

Can a noise feedforward control system reduce noise in a car?

Lu S proposed a simulation study of an active noise feedforward control system based on an algorithm (filter x minimum mean square, FXLMS), and improved the specific sound field environment inside the car, which has a good effect. At some frequencies, the amount of noise reduction can reach 20 dB.

A noise reduction device and automobile exhaust technology, applied in the direction of exhaust devices, noise reduction devices, machines/engines, etc., can solve the problems of poor high ...

It then focuses on different energy storage devices, with a detailed examination of flywheel energy storage technology. Subsequently, the review highlights the current ...



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The application provides a noise reduction method and device for an automobile circuit breaking box, electronic equipment and a storage medium, and relates to the technical field of new ...

This work contributes to the development of robust and efficient energy infrastructures by addressing existing difficulties and optimizing energy systems. Generally, we ...

Electric vehicles require careful management of their batteries and energy systems to increase their driving range while operating safely. This Review describes the ...

A known technical solution used in automobile manufacturing, which helps to partially improve sound insulation in the car interior by its sealing through modifying structural ...

In this paper, the types of on-board energy sources and energy storage technologies are firstly introduced, and then the types of on-board energy sources used in pure ...

A vibration and noise reduction analysis device for a panel part of an automobile is configured to reduce vibration and noise of the panel part caused by vibration from a vibration source and a ...

The global major automobile manufacturers have invested a lot of manpower and resources in developing FCEVs and energy conversion devices that can convert chemical ...

In this section, we briefly describe the key aspects of EVs, their energy storage systems and powertrain structures, and how these relate to energy storage management.

An active noise reduction, automotive technology, applied in the field of noise reduction, can solve the problems of reduced energy attenuation, difficult isolation or absorption, strong diffraction ...

The utility model discloses a noise reduction air intake device for an air intake system of an automobile, in particular to the field of air intake of an automobile. Air intake pipe 2, the right ...

Definition of Engine Noise Control Understanding how to manage engine noise is crucial for anyone involved in automotive engineering or acoustics. Engine noise control ...

An automotive engine, active control technology, applied in vehicle components, circuits or fluid pipelines, transportation and packaging, etc., can solve problems such as processing, mixing, ...

By combining mechanical engineering, materials science, and acoustic engineering, the study investigates both traditional and innovative methods to mitigate engine noise. Key sources of ...

The ability of active noise control (ANC) systems to achieve a more pleasant sound has been evaluated by



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means of sound quality analysis of a real multi-channel active ...

The present disclosure relates to a method for controlling engine noise in an automobile cabin, an apparatus for controlling engine noise in an automobile cabin, a storage medium, and...

This paper presents the adaptive noise canceller for the suppression of noise caused by a rotated engine in a vehicle cabin. The canceller uses two microphones

Utilizing energy storage in transportation offers numerous environmental benefits that extend beyond mere noise pollution reduction. One of the foremost advantages is the significant decrease in greenhouse ...

The desirable characteristics of an energy storage system (ESS) to fulfill the energy requirement in electric vehicles (EVs) are high specific energy, significant storage ...

However, there are few researches on the optimization of automotive energy recovery systems. Recycling structural form and basic working principle, discussing a braking energy recovery ...

For the automotive industry we offer 2 solutions: Quiet Bubble(TM) solution embedded into seats and/or using existing audio speakers to create a personal quiet zone around the passenger's ...

Problems solved by technology At present, the active noise reduction technology in the automotive industry is mainly to generate anti-phase sound waves in the car after detecting the noise of the engine, and to reduce the ...

The rapid development of energy storage devices has enabled the creation of numerous solutions that are leading to ever-increasing energy consumption efficiency, particularly when two or more of these storage systems are ...

Bose Active Sound Management is a powerful suite of sound and noise management technologies designed to help carmakers realize their vision. By applying active solutions to mechanical problems, ASM technology ...

It is known that the main source of noise in a motor vehicle (MV) is its power plant, in particular, the internal combustion engine (ICE). The article deals with the possibility of ...

The invention discloses an engine noise reduction method, an automobile and a computer readable storage medium, wherein the method comprises the following steps: acquiring the ...

The invention relates to the technical field of new energy automobiles, in particular to an engine noise reduction and heat dissipation mechanism for a new energy automobile and a heat ...



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In this paper, based on the study of the noise characteristics of the engine compartment, the relationship model is established between engine speed and noise ...

The present invention relates to automobile equipment technical fields, and in particular to a kind of automobile engine high-efficient noise-reducing energy storage device.

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