Superconducting levitation - applications to bearings and magnetic transportation

Wiley - Keeping the costs of superconducting magnets down using ultrasound

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Magnetic levitation vehicles.
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Near

The movement of a master ball supported by the rotor was measured by a fiber optic displacement sensor.

Magnetic Levitation Train by Shaheen Galgali_seminar report final

The X-ray diffraction analysis showed that the Sm123 and Y123 phases were insufficiently grown at the selected sintering temperature of 1040 °C. In section , four types of non-contact bearing technologies are described and discussed, including aerostatic bearings, aerodynamic bearings, magnetic bearings, and SFABs.

Magnetic levitation

A test rig, which consisted of a bolt-clamped Langevin transducer, a rotor, and a directional converter, was built to investigate the motion error compensation characteristic of the bearing. Yet another object of the invention is to provide a superconducting electromagnet for a maglev vehicle which electromagnet may utilize HTS of bismuth, thalium, or some other based materials which operate at temperatures considerably higher than 4. Research on SFABs, as one of the non-contact bearings, has been ongoing for about decades.

US5479145A

In a recent study accepted for publication in Materials Science and Engineering: B, a team of scientists from Shibaura Institute of Technology, Japan, has developed a cost-effective technique to boost the J c of bulk MgB 2: ultrasonication.

Magnetic Levitation Train by Shaheen Galgali_Presentation

The core 10 comprises iron laminations for AC application. Contrary to traditional railroad vehicles, there is no direct physical contact between maglev vehicle and its guide-way. However, such electrostatic charges may be useful in limited instances for thrust and directional control of a space vehicle, and such charges may be used in a spinning vehicle for communication.

Near

For example, while every high-speed rail passenger pays one dollar for each mile traveled, maglev passengers could pay as little as 5 cents per mile, says James Powell, director of the company Maglev 2000 and a co-inventor of superconducting maglev trains. Aerospace Engineering space craft, Rocket 2. A cryostat accommodates the excitation coil and is positioned in the gaps between the conducting coil and the core.

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