

Design Optimization And Vibration Control Of Adaptive Structures Modeling Of Smart Dampers And Optimization In Semiactive Structures

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How can human service professionals promote change? ... The cases in this book are inspired by real situations and are designed to encourage the reader to get low cost and fast access of books.

Design Optimization And Vibration Control

A team of engineering researchers at the Georgia Institute of Technology hopes to uncover new ways to diagnose and treat brain ailments, from tumors and stroke to Parkinson's disease, leveraging ...

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The science of sound, vibration to better diagnose, treat brain diseases

Designers of motion control systems for the semiconductor industry are consistently confronted with increasing demands for higher performance. To produce more semiconductors faster and at a lower cost ...

Minimize Vibration, Improve Motion Control Performance

This award supports fundamental research to establish a design methodology for composite structures ... They can bear weight and perform other functions such as shape morphing, vibration control, and ...

Establishing a Design Framework for Multi-functional composites by Leveraging Kirigami Cutting, Multi-stability, and Multi-level Optimization

A new generation of machine controllers allows designers to leverage open architecture tools to drive manufacturing innovation. The PLC—the programmable logic controller, or automation controller—has ...

The New Era of Machine Control

AXL], a leading global Tier 1 automotive supplier of driveline and metal forming technologies, and REE Automotive ("REE"), a leader in e-Mobility, today announce that the companies have agreed to ...

AAM and REE Automotive to Jointly Develop New Electric Propulsion System for e-Mobility

STXI Motion, a global motion control and servo solution company, introduces its new mobiMS mobile motion system, a complete wheel drive system ...

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Wheel Drive System Brings Motion to Automated Guided Vehicles and Autonomous Mobile Robots

AIoT seems to be here to stay, and the next development step – as with processing – will be to evolve specialized devices for key markets.

AI and the IoT merge to form the AIoT

Laser and optical systems, whether used in academic labs or industry, are very susceptible to vibrations from the environment, and so these instruments frequently need vibration isolation.

Mechanical vibration damping

Control Engineering - The microscopic structures and properties of materials are intimately linked, and customizing them is a challenge. Rice University engineers are trying to ...

Neural nets used to rethink material design for batteries, more

This paper is concerned with the distributed estimation and control problem for time-varying large-scale interconnected systems (LISs). A novel decoupling strategy with sequential-structure is ...

Distributed Estimation and Control for Discrete Time-Varying Interconnected Systems

Traditional home water heaters mean you have to wait for the right temperature to come from the tank, but with a clever design, and some NASA-grown ... This included instruments like a ...

With NASA Expertise, Hot Water Flows on Demand

POSTECH professor Junsuk Rho's research team demonstrates artificial control of elastic waves and ... the domain of underwater sound but also of vibration. The research team has presented an ...

Silencing vibrations in the ground and sounds underwater

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The WISE-2410 LoRaWAN smart vibration sensor was developed in collaboration with Semtech. It monitors machines' surface temperatures and calculates their vibration characteristics autonomously. This ...

Advantech LoRaWAN smart vibration sensor

WORN OUT ENGINE /GEARBOX MOUNTING The engine's construction has ways of ensuring a reduction of the vibration ... Depending on the engine design, several mountings may be used to support the ...

What's causing your car to vibrate

Sony has recently published an interview with the lead designers of its recent FE 50mm f/1.2 G Master lens. The interview includes Product Leader and Optical Design Lead, Atsuo Kikuchi; Mechanical ...

'Turning design vision into reality': Sony interviews its FE 50mm f/1.2 G Master development team

a new simulator has been installed to help with the creation of components and control systems ... and inputs can be incorporated into the design process at a very early stage.

High-tech driving simulator accelerates vehicle development at Ontario university

The Educator Collar works with a handheld device that allows you to prompt a vibration against your dog ... collar is an excellent waterproof design that works with a signal up to 900 feet.

Need Help Training Your New Pup? Give One of the Best Training Collars a Try

With more than 90 years of brake design and production expertise ... with a focus on noise, vibration and harshness (NVH), analysis and control. Akebono sells Ultra-Premium Ceramic Disc

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Brake ...

Akebono Selects Solid Edge, Teamcenter X and PROLIM for Digital Transformation

The GWX18V-13CN Spitfire also includes spiral bevel gears for smooth power transitions, a two-position vibration control side handle and a slim soft-grip design for additional ergonomics. Cutting ...

Bosch Power Tools Announces Availability of 18V Angle Grinder with Side Switch

American Axle & Manufacturing Inc., a supplier of driveline and metal forming technologies, and REE Automotive, a leader in e-Mobility, have agreed to jointly develop a new electric propulsion system ...

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