



Magnetorheological Fluid Technology: Applications in Vehicle Systems

Seung-Bok Choi, Young-Min Han

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Magnetorheological Fluid Technology: Applications in Vehicle Systems compiles the authors' recent work involving the application of magnetorheological (MR) fluids and other smart materials in vehicles. It collects concepts that have previously been scattered in peer-reviewed international journals.

After introducing the physical phenomena and properties of MR fluids, the book presents control methodologies for effectively controlling vehicle devices and systems featuring MR fluids. The authors also introduce the hysteresis identification of MR fluid and discuss its application through the adoption of the Preisach and polynomial models. They then describe the application of MR-equipped suspension systems in passenger, tracked, and railway vehicles; the application of MR brake systems in passenger vehicles, motorcycles, and bicycles; and the application of several MR technologies in heavy vehicles. The final chapter explores the use of haptic technologies for easily operating vehicle instruments and achieving optimal gear shifting with accelerator pedals.

Assuming some technical and mathematical background in vibration, dynamics, and control, this book is designed for scientists and engineers looking to create new devices or systems for vehicles featuring controllable MR fluids. It is also suitable for graduate students who are interested in the dynamic modeling and control methodology of vehicle devices and systems associated with MR fluid technology.

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