



actuators



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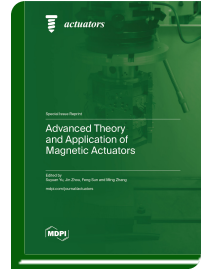
Advanced Theory and Application of Magnetic Actuators

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Magnetic actuators are actuators which use magnetic force, or Lorentz force, and they are widely used in industry, defense, aviation, the aerospace industry, and daily life. Magnetic actuators integrate electromagnetism, electronic technology, superconducting and cryogenic technology, control engineering, signal processing, mechanics, and dynamics. They have attracted extensive attention from scholars at home and abroad, thus representing a research hotspot in related fields. In order to solve the basic scientific problems and key technical problems related to magnetic actuators, as well as to gather the frontier achievements of magnetic actuators and vibration control, our journal, *Actuators*, has set up a special issue, entitled "Advanced Theory and Application of Magnetic Actuators", which contains 12 articles that discuss actuators, their designs, and the use of magnetic force or Lorentz force. The articles presented mainly focus on the nonlinear bearing characteristics of active magnetic bearings, design and implementation of permanent and electromagnet composite vibration isolation systems, magnetic suspended flywheel energy storage systems, the characteristic analysis of an electromagnetic actuator for magnetic levitation transportation, magnetically driven oil-free scroll compressors, and so on.



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