



Development of Microactuators Based on the Magnetic Shape Memory Effect

By Srinivasa Reddy Yeduru

Karlsruher Institut Für Technologie Sep 2014, 2014.

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The giant magneto-strain effect in Ni-Mn-Ga alloys is particularly attractive for actuator applications. Two different approaches are being pursued to develop MSM microactuators. To observe large deflections of Ni-Mn-Ga microactuators, the material should be exhibiting low twinning stress and large magnetic anisotropy. In addition, design rules and boundary conditions for operating the Ni-Mn-Ga actuator material are having significant importance for evolution of performance characteristics. 180 pp. Englisch.



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