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Abstract. The present author has been studying shape memory alloys including Cu-Al-Ni, Ti-Ni-based, and Ni-free Ti-based alloys since 1979.

Size effect and scaling power-law for superelasticity in ...

Shape-memory alloys capable of a superelastic stress-induced phase transformation and a high displacement actuation have promise for applications in micro-electromechanical systems for wearable

Effect of grain size on superelasticity in Fe-Mn-Al-Ni ...

Yamauchi, I. Ohkata, K. Tsuchiya, and S. Miyazaki, Shape Memory and Superelastic Alloys (Woodhead Publishing,

2011). Because of the low material cost in comparison with that of the Ti-Ni alloy, the MTs of Fe-based alloys have attracted attentions and many attempts have been made to obtain SE in Fe-based alloys, including Fe-Ni-Co-Ti alloy showing the (fcc)/(bcc) MT. 2 2.

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The NiTi shape memory alloy passivated for 90 min by autoclaving has been studied towards corrosion performance in the Tyrode's simulated body fluid using open circuit potential and EIS measurements.

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In: Yamauchi K, Ohkata I, Tsuchiya K, Miyazaki S (eds) Shape memory and superelastic alloys technologies and applications. Woodhead Publishing Limited, Sawston, pp 15-42 CrossRef Google Scholar 26.

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This paper presents an investigation into shape memory alloy (SMA) springs considering the effects of geometry changes under small as well as large deformations. Helical springs were fabricated by shape setting of NiTi wires through heat treatment. The products exhibited pseudoelasticity at the ambient temperature, and their force-displacement

Phase-Field Study of Microstructure and Plasticity in

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The evolution of microstructure and plasticity in polycrystalline MnNi shape memory alloys was simulated by a phase-field method considering plastic deformation. Plastic strain was found to occur