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A review of: "ENGINEERING ASPECTS OF SHAPE MEMORY ALLOYS ...

Shape memory alloys (SMAs) have found several industrial and biomedical applications due to their superior mechanical and biological properties. Since SMA devices may experience several cyclic loadings during their function, assessment of their cyclic response is of vital importance.

Modeling the cyclic shape memory and superelasticity of ...

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A shape-memory alloy is an alloy that can be deformed when cold but returns to its pre-deformed shape when heated. It may also be called memory metal, memory alloy, smart metal, smart alloy, or muscle wire. Parts made of shape-memory alloys can be lightweight, solid-state alternatives to conventional actuators such as hydraulic, pneumatic, and motor-based systems. They can also be used to make hermetic joints in metal tubing.

Shape-memory alloy - Wikipedia

The basis for the shape memory and superelastic properties of SMAs is a martensitic phase transformation in the microstructure. Martensitic transformations are diffusionless solid-to-solid phase ...

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Abstract. A modified phenomenological model for Shape Memory Alloy (SMA) is presented for design of an SMA wire based rotatory actuator. In this model, the forward and reverse transformation functions are derived from two kinds of tests: standard tension test, carried out at constant temperature, and thermal cyclic test under constant force.

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