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THE EFFECT OF PRE-STRESSING ON THE STATIC INDENTATION LOAD CAPACITY OF THE SUPERELASTIC 60NITI



The Effect of Pre-Stressing on the Static Indentation Load Capacity of the Superelastic 60NiTi

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Superelastic nickel-titanium alloys, such as 60NiTi (60Ni-40Ti by wt.), are under development for use in mechanical components like rolling element bearings and gears. Compared to traditional bearing steels, these intermetallic alloys, when properly heat-treated, are hard but exhibit much lower elastic modulus (approx. 100 GPa) and a much broader elastic deformation range (approx. 3 percent or more). These material characteristics...

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