



Design of Shape Memory Alloy (SMA) Actuators

By Ashwin Rao

Springer-Verlag Gmbh Jul 2015, 2015. Taschenbuch. Book Condition: Neu. 236x161x15 mm. Neuware - This short monograph presents an analysis and design methodology for shape memory alloy (SMA) components such as wires, beams, and springs for different applications. The solid-solid, diffusionless phase transformations in thermally responsive SMA allows them to demonstrate unique characteristics like superelasticity and shape memory effects. The combined sensing and actuating capabilities of such materials allows them to provide a system level response by combining multiple functions in a single material system. In SMA, the combined mechanical and thermal loading effects influence the functionality of such materials. The aim of this book is to make the analysis of these materials accessible to designers by developing a 'strength of materials' approach to the analysis and design of such SMA components inspired from their various applications with a review of various factors influencing the design process for such materials. 130 pp. Englisch.



READ ONLINE
[5.61 MB]

Reviews

This pdf may be worth purchasing. This is for anyone who statte there was not a really worth reading. I found out this pdf from my i and dad encouraged this pdf to understand.

-- **Mrs. Annamae Raynor**

If you need to adding benefit, a must buy book. This really is for all who statte that there had not been a well worth reading. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Claud Bernhard**