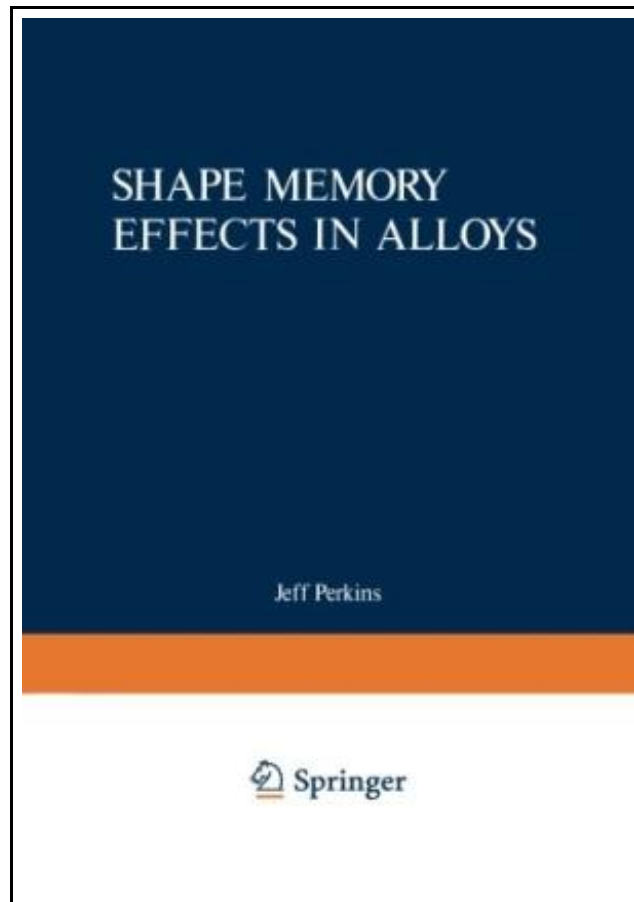


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Book Condition: New. Publisher/Verlag: Springer, Berlin | The International Symposium on Shape Memory Effects and Applications was held at the University of Toronto on May 19-20, 1975, in four sessions over two days, as part of the regular 1975 Spring Meeting of The Metallurgical Society of AIME, sponsored by the Physical Metallurgy Committee of The Metallurgical Society. This was the first symposium on the subject, the only previous meeting at all related being the 1968 NOL Symposium on TiNi and Associated Compounds. One of the major intentions of this Symposium was to provide a forum for cross-communication between workers in the diverse metallurgical areas pertinent to shape memory effects, areas such as martensitic transformation, crystallography and thermodynamics, mechanical behavior, stress-induced transformation, lattice stability, and alloy development. Authors were encouraged to place an emphasis on delineation of general controlling factors and mechanisms, and on comparison of shape memory effect alloy systems with systems not exhibiting SME. | 1. Deformation, Mechanisms and Other Characteristics of Shape Memory Alloys.- 2. The Mechanical Properties of SME Alloys.- 3. Optical and Electron Microscope Observations of Transformation and Deformation Characteristics in Cu-Al-Ni Martensitic Alloys.- 4. Crystallography and Thermodynamics of SME-Martensites.- 5. Martensitic Transformations in β -Phase Alloys.- 6. Lattice Softening and the Origin of SME.- 7. Premartensitic-Martensite Transitions Related to Shape Memory Effect.- 8. Ferroelastic "Memory" and Mechanical Properties in Gold-Cadmium.- 9. The Shape Memory Effect in TiNi: One Aspect of Stress-Assisted Martensitic Transformation.- 10. Thermomechanical Characteristics of Alloys Exhibiting Martensitic Thermoelasticity.- 11. Shape Memory Effects and Applications: An Overview.- 12. Direct Observation of Martensitic Transformation Between Martensites in a Cu-Al-Ni Alloy.- 13. Microstructural Changes During SME Behavior.- 14. Martensite Formation as a Deformation Process in Polycrystalline Copper-Zinc Based Alloys.- 15. The Influence of Thermal History on the Pseudoelasticity of Copper-Zinc Based Alloys...



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