



# Shape Memory Materials

**Youyi Chu, Hailing Tu**



## Shape Memory Materials:

*Shape Memory Materials* K. Otsuka, C. M. Wayman, 1999-10-07 A comprehensive account of shape memory materials now available in paperback

**Shape Memory Materials** Arun D I, Chakravarthy P, Arockia Kumar R, Santhosh B, 2018-04-27 This work addresses the basic principles synthesis fabrication and applications of smart materials specifically shape memory materials Based on origin the mechanisms of transformations vary in different shape memory materials and are discussed in different chapters under titles of shape memory alloys ceramics gels and polymers Complete coverage of composite formation with polymer matrix and reinforcement filler conductive materials with examples

*Advances in Shape Memory Materials* Volodymyr A. Chernenko, 2008-05-15 Ferromagnetic Shape Memory Alloys Special topic volume with invited papers only

*Advances in Shape Memory Materials* Qingping Sun, Ryosuke Matsui, Kohei Takeda, Elżbieta A. Pieczyska, 2017-03-14 This book is devoted to the development of the shape memory materials and their applications It covers many aspects of smart materials It also describes the method on how we can obtain not only large recovery strains but also high recovery stress energy storage and energy dissipation in applications This volume treats the mechanical properties of shape memory alloys shape memory polymers and the constitutive equations of the materials which are necessary to design the shape memory elements in applications It also deals with the fatigue properties of materials the method to design the shape memory elements and the shape memory composites The authors are international experts on shape memory alloys and shape memory polymers in the metallurgical chemical mechanical and engineering fields The book will be of interest to graduate students engineers scientists and designers who are working in the field of electric and mechanical engineering industries medical engineering aerospace engineering robots automatic machines clothes and recycling for research design and manufacturing

*Additive Manufacturing of Shape Memory Materials* Mehrshad Mehrpouya, Mohammad Elahinia, 2024-10-23 Additive Manufacturing of Shape Memory Materials Techniques Characterization Modeling and Applications outlines an array of techniques and applications for additive manufacturing AM and the use of various shape memory materials covering corrosion properties material sensitivity to thermal magnetic and electrical effects as well as sensitivity of shape memory properties to AM parameters including part geometry effects and post process treatments Design for AM and a number of different AM methods are discussed with materials covered including shape memory alloys shape memory polymers high temperature shape memory alloys and magnetic shape memory alloys Characterization and modeling methods are also included as is a chapter dedicated to real world applications of these production techniques and materials Provides an overview of various shape memory materials their additive manufacturing techniques and processes their applications and opportunities and challenges related to their production and use Outlines the thermomechanical and functional properties of shape memory alloys that can be applied to their additive manufacturing processes Covers techniques for additive manufacturing of shape memory polymers shape memory alloys high temperature shape memory

alloys and magnetic shape memory alloys Discusses characterization post processing modeling and applications of shape memory materials *Sustainability of Alloys and Polymers of Shape Memory Materials* Ajit Behera, Manisha Priyadarshini, 2026-04-28 Shape memory materials constitute a distinct category capable of recovering their original shape after deformation This book covers fabrication methodologies including exploration of diverse shape recovery mechanisms across alloys polymers ceramics and hybrid compositions Furthermore the focus extends to emerging applications and discussion of the relationship between shape actuation rates and associated properties including the training procedures post synthesis Key Features Elaborates on the development of properties at high temperatures and hostile conditions Details the emerging applications of shape memory materials presenting a thorough overview of alloys and polymers Provides evidence related to shape memory materials covering aspects such as training exact properties mechanisms and applications Unveils a smart system developed based on shape memory materials spanning from low to high operating temperatures Communicates synthesis techniques by controlling the chemical composition toward the exact properties and their sustainability This book is aimed at graduate students and researchers in materials and polymer engineering

**Functional Properties of Shape Memory Materials and Their Applications** Hisaaki Tobushi, Tadashige Ikeda, Kazuhiro Kitamura, Ryosuke Matsui, Kohei Takeda, 2021 This book is compiled into three parts Part 1 describes the functional properties of shape memory alloy such as the shape memory effect and superelasticity the constitutive equation for thermomechanical properties the bi axial tensile torsional behavior influence of strain rate on deformation behavior cyclic deformation properties micromechanical model of polycrystalline SMAs application of thermomechanical model to tension compression behavior the transformation induced creep and stress relaxation and the torsional deformation of thin tape Part 2 contains the advanced functions of shape memory alloy and polymer such as the shape retaining control using SMA system the micromechanical model of shape memory polymer performance of shape memory polymer composite enhancement of fatigue life of SMA by ultrasonic shot peening and nitrogen ion implantation enhancement of corrosion fatigue life of SMA development of functionally graded shape memory alloy and polymer development of shape memory composites and development of 3D printing of shape memory polymer Part 3 deals with the applications of shape memory alloy and polymer such as the development of application model in engineering filed the smart vortex generator for aircraft the smart morphing flap driven by SMA wires and the development of application models of SMA brain spatula in medical engineering filed the working support device in nursing care field and the energy conversion teaching material in education This book will be interested to graduate students engineers materials scientists and designers who are working in the field of mechanical and electric engineering medical engineering nursing care technology aerospace engineering robots automatic machines clothes and recycling for research design manufacturing and fabrication

**Shape Memory Materials and their Applications** Y.Y. Chu, Lian Cheng Zhao, 2002-05-11 SMM SMST 2001 International Conference on Shape Memory and Superelastic Technologies and Shape

Memory Materials SMST SMM 2001 held in Kunming China 2 6 September 2001 *Shape Memory Alloys* H. R. Chen,2010 A shape memory alloy SMA also known as a smart metal memory alloy or muscle wire is an alloy that remembers its shape and can be returned to that shape after being deformed by applying heat to the alloy When the shape memory effect is correctly harnessed this material becomes a lightweight solid state alternative to conventional actuators such as hydraulic pneumatic and motor based systems Shape memory alloys have numerous applications in the medical and aerospace industries This book presents the latest research in the field from around the globe *Shape Memory Materials and Its Applications* Y. Y. Chu,L. C. Zhao,2002 This volume contains the proceedings of the International Conference on Shape Memory and Superelastic Technologies and Shape Memory Materials SMST SMM 2001 which was held in Kunming China on the 2 6 September 2001 This built on the SMST and SMM international conference series thus making the present conference more international and fostering a lively cross fertilization which could only promote developments in both materials themselves and in their applications The proceedings comprise 131 papers which cover all aspects of shape memory materials SMM and the application of shape memory and superelastic technologies SMST The main topics covered are **Advances in Shape Memory Materials** ,2008 **Shape-Memory Materials** Alicia Esther Ares,2018-09-26 Shape memory materials are materials that react under variations of electric or magnetic fields physical or chemical changes and that when returning to the initial conditions recover their original form capable of repeating this process an infinite number of times without deteriorating The characteristics fabrication techniques and thermomechanical treatment of various shape memory materials are described in detail in this book The book describes several principles and applications *Shape Memory Materials for Smart Systems* Dr. Manfred Kohl,V. A. Chernenko,Stefano Besseghini,2008 Shape-memory Materials and Phenomena--fundamental Aspects and Applications Chain Tsuan Liu,1992 **Shape Memory Materials '94** Youyi Chu,Hailing Tu,1994 Mathematical Problems in Shape Optimization and Shape Memory Materials Antoni Zochowski,1992 The book is devoted to nonlinear mathematical problems encountered in modern structural design shape optimization and smart materials In the first part a method of sensitivity calculations for singular elliptic problems is proposed and its correctness as well as some properties are proved Examples of applications are given The second part concerns structures reinforced with shape memory materials The existence uniqueness and differentiability properties of solutions to dynamic problems are proved based on the Landau Devonshire shape memory effect model Finally an approach to the description of noncrystalline shape memory materials with preliminary existence results is presented **Advances in Shape Memory Materials** V. A. Chernenko,2008 This specialist book the first of its kind includes original and review articles which describe magnetic shape memory alloys and the magnetic shape memory effect These topics are currently the object of world wide research and development In particular the authors in the present book concentrated upon describing the phenomenological and microscopic mechanisms of the magnetic shape memory effect on the physical basis of the

advanced properties of magnetic shape memory alloys and on the structural aspects of martensitic transformations in both ferromagnetic and non ferromagnetic shape memory alloys Several chapters are devoted to more general issues such as damping the newly discovered glassy martensite and modeling The reader will also find copious information on technical applications and actuators which utilize shape memory alloys with due consideration given to the relevant design principles and the analysis of simulation results This book will therefore be of great interest to anyone working on the research or development aspects of smart materials

*Ferromagnetic Shape Memory Materials* Robert Tickle,2000 [Advances in Magnetic Shape Memory Materials](#) Volodymyr A. Chernenko,2011-05-17 Special topic volume with invited peer reviewed papers only

**Shape Memory Alloys** Dimitris C. Lagoudas,2010-11-04 This book provides a working knowledge of the modeling and engineering applications of shape memory alloys SMAs beginning with a rigorous introduction to continuum mechanics and continuum thermodynamics as they relate to the development of SMA modeling Modern SMAs can recover from large amounts of bending and deformation and millions of repetitions within recoverable ranges SMAs are used in the medical industry to create stents in the dental industry to create dental and orthodontic archwires and in the aerospace industry to create fluid fittings The text presents a unified approach to the constitutive modeling of SMAs including modeling of magnetic and high temperature SMAs

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