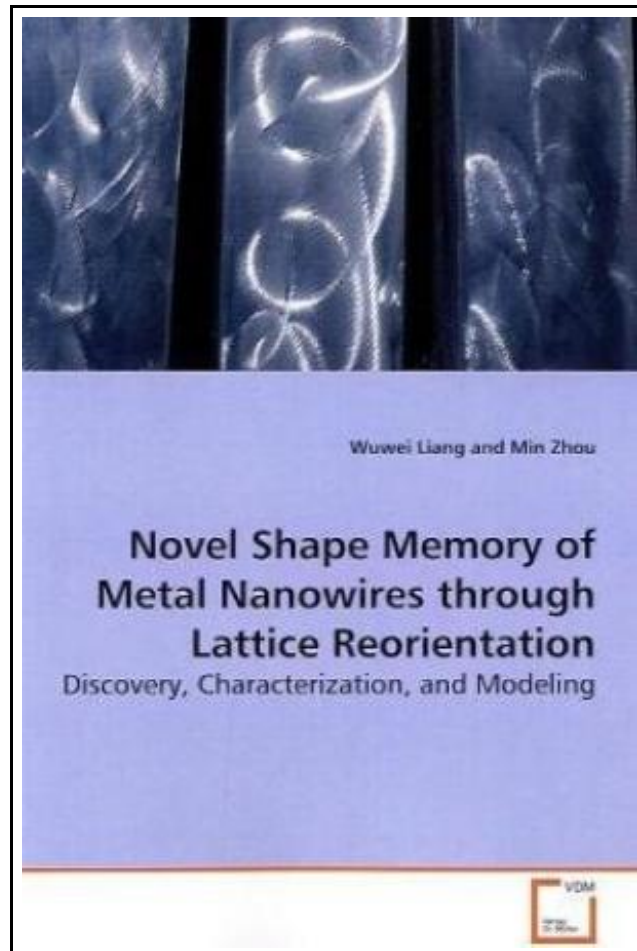


Novel Shape Memory of Metal Nanowires through LatticeReorientation



Filesize: 6.22 MB

Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

NOVEL SHAPE MEMORY OF METAL NANOWIRES THROUGH LATTICEREORIENTATION



VDM Verlag Jul 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x7 mm. Neuware - As functional nano building blocks, nanowires are of great technical importance because of their unique structures, properties, and potential applications in nanoscale electronic, photonic, biological, and chemical devices. These applications require a fundamental understanding of the structural characteristics and thermomechanical properties of nanowires. This work focuses on the characterization of the structure and mechanical behavior of metal nanowires. A novel shape memory effect and pseudoelastic behavior of metal nanowires are discovered in molecular dynamics simulations. Specifically, upon tensile loading and unloading, these wires can recover elongations of up to 50%, well beyond the recoverable strains of 5-8% typical for most bulk shape memory alloys. This novel behavior arises from a reversible lattice reorientation driven by the high surface-stress-induced internal stresses at the nanoscale. It exists over a wide range of temperature and is associated with response times on the order of nanoseconds, making the nanowires attractive functional components for a new generation of biosensors, transducers, and interconnects in nano-electromechanical systems. 116 pp. Englisch.



[Read Novel Shape Memory of Metal Nanowires through LatticeReorientation Online](#)



[Download PDF Novel Shape Memory of Metal Nanowires through LatticeReorientation](#)

You May Also Like



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Read ePub »](#)



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Read ePub »](#)



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and...

[Read ePub »](#)



Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 6: Gran s New Blue Shoes (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It...

[Read ePub »](#)



Kingfisher Readers: Romans (Level 3: Reading Alone with Some Help) (Unabridged)

Pan Macmillan. Paperback. Book Condition: new. BRAND NEW, Kingfisher Readers: Romans (Level 3: Reading Alone with Some Help) (Unabridged), Philip Steele, For the first time, Kingfisher brings its expertise in beautifully-designed, trusted non-fiction to the...

[Read ePub »](#)



The 32 Stops: The Central Line

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, The 32 Stops: The Central Line, Danny Dorling, Geographer Danny Dorling tells the stories of the people who live along The 32 Stops of the Central

[Read eBook »](#)



Early National City CA Images of America

Arcadia Publishing. Paperback. Book Condition: New. Paperback. 128 pages. Dimensions: 9.1in. x 6.4in. x 0.4in. Below the surface of bustling National City lies the story of olive and citrus orchards, grand Victorian homes, great wealth, and

[Read eBook »](#)



Southern Educational Review Volume 3

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download

[Read eBook »](#)



When Santa Claus Prayed

Xulon Press. Paperback. Book Condition: New. Paperback. 28 pages. Dimensions: 9.0in. x 8.1in. x 0.3in. Dad, youre wrong about Santa Claus! I cant sit on baby Jesuss lap or even see him! I cant send letters

[Read eBook »](#)



Genuine entrepreneurship education (secondary vocational schools teaching book) 9787040247916(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2008-08-01 Pages: 175 Publisher: Higher Education Basic information title: entrepreneurship education

[Read eBook »](#)