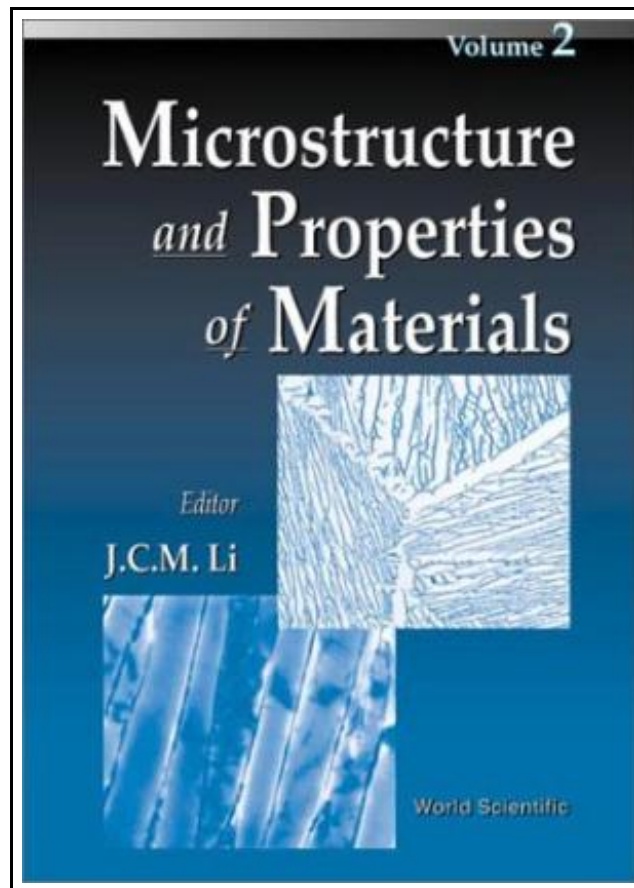


## Microstructure and Properties of Materials: Vol 2 (Hardback)



Filesize: 1.87 MB

### ***Reviews***

*The very best publication i actually go through. It can be packed with knowledge and wisdom It is extremely difficult to leave it before concluding, once you begin to read the book.*

*(Rhea Kunze)*

## MICROSTRUCTURE AND PROPERTIES OF MATERIALS: VOL 2 (HARDBACK)

DOWNLOAD



World Scientific Publishing Co Pte Ltd, Singapore, 2000. Hardback. Book Condition: New. 218 x 162 mm. Language: English . Brand New Book. This is the second volume of an advanced textbook on microstructure and properties of materials. (The first volume is on aluminum alloys, nickel-based superalloys, metal matrix composites, polymer matrix composites, ceramics matrix composites, inorganic glasses, superconducting materials and magnetic materials). It covers titanium alloys, titanium aluminides, iron aluminides, iron and steels, iron-based bulk amorphous alloys and nanocrystalline materials. There are many elementary materials science textbooks, but one can find very few advanced texts suitable for graduate school courses. The contributors to this volume are experts in the subject, and hence, together with the first volume, it is a good text for graduate microstructure courses. It is a rich source of design ideas and applications, and will provide a good understanding of how microstructure affects the properties of materials. Chapter 1, on titanium alloys, covers production, thermomechanical processing, microstructure, mechanical properties and applications. Chapter 2, on titanium aluminides, discusses phase stability, bulk and defect properties, deformation mechanisms of single phase materials and polysynthetically twinned crystals, and interfacial structures and energies between phases of different compositions. Chapter 3, on iron aluminides, reviews the physical and mechanical metallurgy of Fe<sub>3</sub>Al and FeAl, the two important structural intermetallics. Chapter 4, on iron and steels, presents methodology, microstructure at various levels, strength, ductility and strengthening, toughness and toughening, environmental cracking and design against fracture for many different kinds of steels. Chapter 5, on bulk amorphous alloys, covers the critical cooling rate and the effect of composition on glass formation and the accompanying mechanical and magnetic properties of the glasses. Chapter 6, on nanocrystalline materials, describes the preparation from vapor, liquid and solid states, microstructure including grain boundaries and their junctions, stability with respect to grain...



[Read Microstructure and Properties of Materials: Vol 2 \(Hardback\) Online](#)



[Download PDF Microstructure and Properties of Materials: Vol 2 \(Hardback\)](#)

## Related Books



**Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read PDF »](#)



**Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read PDF »](#)



**More Spaghetti, I Say!**

Scholastic Inc., United States, 1993. Paperback. Book Condition: New. Mort Gerberg (illustrator). Reissue. 218 x 147 mm. Language: English . Brand New Book. With inspiring and educational stories, Scholastic s Hello Reader series caters to...

[Read PDF »](#)



**Adult Coloring Book Birds: Advanced Realistic Bird Coloring Book for Adults**

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Take your coloring to the next level with this Advanced...

[Read PDF »](#)



**Nautical Coloring Book: An Advanced Adult Coloring Book of Nautical, Maritime and Seaside Scenes**

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Take your coloring to the next level with this Advanced...

[Read PDF »](#)

**From Kristallnacht to Israel: A Holocaust Survivor s Journey**

Dog Ear Publishing, United States, 2009. Paperback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In the 1930s, as evil begins to envelope Europe, Karl Rothstein

[Save ePub »](#)

**Nickel Plated**

Amazon Encore, United States, 2011. Paperback. Book Condition: New. 206 x 137 mm. Language: English . Brand New Book. It was weird to just get a contact out of nowhere. She was a kid, though,

[Save ePub »](#)

**The Voice Revealed: The True Story of the Last Eyewitness**

World Bible Publishers Inc, United States, 2007. Paperback. Book Condition: New. 175 x 107 mm. Language: English . Brand New Book. For God expressed His love for the world in this way: He gave His

[Save ePub »](#)

**Oxford Mini School Dictionary Thesaurus**

Oxford University Press, United Kingdom, 2012. Part-work (fasciculo). Book Condition: New. 116 x 84 mm. Language: English . Brand New Book. The Oxford Mini School Dictionary Thesaurus is the ideal one-volume quick reference tool for

[Save ePub »](#)

**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: I am Kipper (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 144 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

[Save ePub »](#)