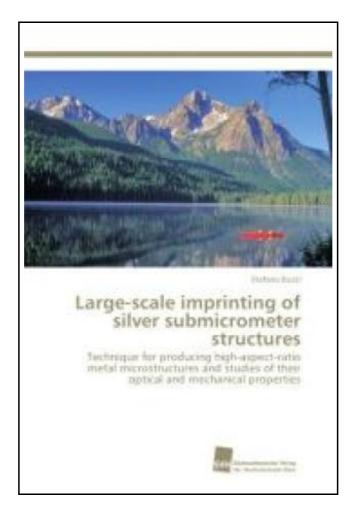
# Large-scale imprinting of silver submicrometer structures



Filesize: 1.46 MB

### **Reviews**

Good e-book and useful one. It typically does not expense an excessive amount of. I am just delighted to tell you that this is basically the finest book we have read during my very own existence and could be he best ebook for actually.

(Audra Hodkiewicz)

# LARGE-SCALE IMPRINTING OF SILVER SUBMICROMETER STRUCTURES



Südwestdeutscher Verlag Für Hochschulschriften AG Co. KG Jul 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - While metals are extremely widespread in the macroscopic world, the use of metallic microstructures is currently limited by the deficiency of efficient fabrication techniques and the incomplete understanding of the material properties at submicrometer scale. In this thesis the author exploited the exceptional malleability of silver and gold to extend the use of the forging technique (imprinting) to sizes down to 100 nm and aspect ratios above 10. The successful large-scale production of metal microstructures enabled the study of size effects on mechanical properties. Moreover, the interaction of light with metal-semiconductor subwavelength periodic structures (metamaterials) was investigated. The results indicate that (nano)imprinting can indeed be used for producing high-quality metal microstructures as well as for metalizing structured dielectrics. The observation of strong size effects in structures below 1 um (showing inhomogeneous deformation and up to 10-fold higher strengths compared to the bulk) and of sharp IR-light resonances in silver-silicon photonic crystals contribute to develop the necessary know-how for the design of innovative MEMS and optoelectronic applications. 120 pp. Englisch.



Read Large-scale imprinting of silver submicrometer structures Online Download PDF Large-scale imprinting of silver submicrometer structures

### Relevant eBooks



#### **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 Book »



#### 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 Book »



# The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program (Paperback)

Brookes Publishing Co, United States, 2015. Paperback. Book Condition: New. 274 x 213 mm. Language: English . Brand New Book. Filled with tips, tools, and strategies, this book is the comprehensive, practical toolbox preschool administrators...

Read Book »



#### It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em, Greg Behrendt, Amiira Ruotola-Behrendt, A fabulous new guide to dating...

Read Book »



#### Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Paperback. Book Condition: New. Not Signed; This is a Tinga Tinga tale inspired by traditional stories from Africa. Lion is king of Tinga Tinga but he can't roar! Can his friend Flea help Lion to...

Read Book »



#### Fifth-grade essay How to Write

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 272 Publisher: one hundred Press Pub. Date: 2008-10-1. Contents: The first semester

Save Document »



#### Shepherds Hey, Bfms 16: Study Score

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 22 pages. Dimensions: 9.4in. x 7.1in. x 0.0in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English

Save Document »



#### Symphony No.2 Little Russian (1880 Version), Op.17: Study Score (Paperback)

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Composed in 1872 and first performed in Moscow at the Russian

Save Document »



# I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New.  $234 \times 185$  mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy

Save Document »



### Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it? (Paperback)

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 215 x 108 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

Save Document »