

Ultra high cycle fatigue of thin Al-based films

Filesize: 1.15 MB

Reviews

This ebook might be worthy of a go through, and much better than other. Of course, it is actually perform, still an amazing and interesting literature. I am just happy to inform you that this is the greatest pdf i actually have study during my very own life and might be he very best book for ever. (Kristina Connelly)

DISCLAIMER | DMCA

ULTRA HIGH CYCLE FATIGUE OF THIN AL-BASED FILMS



Shaker Verlag Jul 2010, 2010. Buch. Condition: Neu. Neuware - Fatigue is a major problem in several application fields. The common basis is that samples can fail even far below their tensile yield stress limit when stressed cyclically. Fatigue describes the degradation of material properties due to the cyclic application of a mechanical load. In surface acoustic wave (SAW) devices the frequency of the cyclic stress can reach the GHz-regime. Cycle numbers of 10 14 can therefore be reached within one day. Hence cycle numbers greatly surpass those seen in common applications. The working principle of SAW filters is based on the back and forth transduction of an electric signal to a mechanical wave. An alternating current is applied to the device and an acoustic wave is induced by the piezoelectric substrate. As the device is designed to operate as resonator, locally high stresses can occur. Fatigue damage can be observed in SAW devices, which leads to a degradation of their properties. A lifetime criterion defines when the degradation is considered a device failure. An easily accessible criterion is the resonance frequency of the device. The damage formation in SAW devices is attributed to a combined effect of dislocation motion and stress-induced diffusion processes. The complex stress distribution in the device is dominated by shear stresses induced by the surface acoustic wave. The similarity of the damage observed in electromigration with voids and extrusions and the damage observed in SAW test devices, led to the name 'acoustomigration' since the damage formation is triggered by a surface acoustic wave. While many materials have been tested empirically, few studies have tried to unveil the underlying mechanisms. The major goal of the research presented in this thesis is to achieve a deeper understanding of the fatigue mechanisms in the GHz-regime and, based on...

Read Ultra high cycle fatigue of thin Al-based films Online
Download PDF Ultra high cycle fatigue of thin Al-based films

See Also A Year Book for Primary Grades; Based on Froebel s Mother Plays 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 ePub The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program 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 ePub » Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How... Read ePub » Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2 Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2, This is based on the new Peter Rabbit animated TV series. Peter and Lily... Read ePub » Peppa Pig: School Bus Trip - Read it Yourself with Ladybird Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peppa Pig: School Bus Trip - Read it Yourself with Ladybird, Peppa

>>

and her friends are going on a school bus trip. What adventures will they... Read ePub

PDF	Violin Concerto, Op.82: Study Score Petrucci Library Press, United States, 2014. Paperback. Book Condition: New. Urtext ed 274 x 213 mm. Language: English . Brand New Book ***** Print on Demand *****.Premiered by the renowned violinist Leopold Auer in St. Save PDF »
PDF	Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback) Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 174 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It Save PDF
PDF	Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 6: Ice City (Hardback) Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 170 x 145 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It Save PDF *
PDF	You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most Sourcebooks, Inc. Paperback / softback. Book Condition: new. BRAND NEW, You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most, Patricia Hermes, Thirteen-year-old Sarah Morrow doesn't think much of the Save PDF *
PDF	Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Seasick (Hardback) Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 174 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It Save PDF