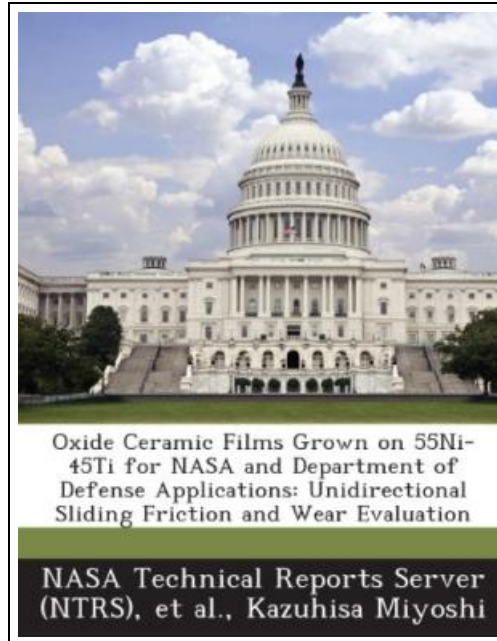


Oxide Ceramic Films Grown on 55ni-45ti for NASA and Department of Defense Applications: Unidirectional Sliding Friction and Wear Evaluation



Filesize: 9.15 MB

Reviews

Very useful to all category of individuals. It is one of the most amazing publication i have got read through. You will not feel monotony at anytime of your respective time (that's what catalogs are for about when you question me).




(Mr. Johnathon Dach)

OXIDE CERAMIC FILMS GROWN ON 55NI-45TI FOR NASA AND DEPARTMENT OF DEFENSE APPLICATIONS: UNIDIRECTIONAL SLIDING FRICTION AND WEAR EVALUATION



To read **Oxide Ceramic Films Grown on 55ni-45ti for NASA and Department of Defense Applications: Unidirectional Sliding Friction and Wear Evaluation** eBook, please access the web link under and download the file or get access to additional information that are relevant to OXIDE CERAMIC FILMS GROWN ON 55NI-45TI FOR NASA AND DEPARTMENT OF DEFENSE APPLICATIONS: UNIDIRECTIONAL SLIDING FRICTION AND WEAR EVALUATION book.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. An investigation was conducted to examine the friction and wear behavior of the two types of oxide ceramic films furnished by the U. S. Army Research Laboratory, Development and Engineering Center (ARDEC) under Space Act Agreement SAA3 567. These two types of oxide ceramics were grown on 55Ni-45Ti (60 wt Ni and 40 wt Ti) substrates: one was a TiO₂ with no other species (designated the B film) and the other was a TiO₂ with additional species (designated the G film). Unidirectional ball-on-disk sliding friction experiments were conducted with the oxide films in contact with sapphire at 296 K (23 C) in approx. 50-percent relative humidity laboratory air in this investigation. All material characterization and sliding friction experiments were conducted at the NASA Glenn Research Center. The results indicate that both films greatly improve the surface characteristics of 55Ni-45Ti, enhancing its tribological characteristics. Both films decreased the coefficient of friction by a factor of 4 and increased wear resistance by a two-figure factor, though the B film was superior to the G film in wear resistance and endurance life. The levels of coefficient of friction and wear resistance of both films in sliding contact with sapphire were acceptable for NASA and Department of Defense tribological applications. The decrease in friction and increase in wear resistance will contribute to longer wear life for parts, lower energy consumption, reduced related breakdowns, decreased maintenance costs, and increased reliability. This item ships from La Vergne, TN. Paperback.

-  [Read Oxide Ceramic Films Grown on 55ni-45ti for NASA and Department of Defense Applications: Unidirectional Sliding Friction and Wear Evaluation Online](#)
-  [Download PDF Oxide Ceramic Films Grown on 55ni-45ti for NASA and Department of Defense Applications: Unidirectional Sliding Friction and Wear Evaluation](#)
-  [Download ePub Oxide Ceramic Films Grown on 55ni-45ti for NASA and Department of Defense Applications: Unidirectional Sliding Friction and Wear Evaluation](#)

You May Also Like



[PDF] **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Follow the web link below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" document.

[Download eBook »](#)



[PDF] **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)**

Follow the web link below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)" document.

[Download eBook »](#)



[PDF] **One Night with Consequences: Bound**

Follow the web link below to download "One Night with Consequences: Bound" document.

[Download eBook »](#)



[PDF] **Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Follow the web link below to download "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" document.

[Download eBook »](#)



[PDF] **Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade**

Follow the web link below to download "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" document.

[Download eBook »](#)



[PDF] **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Follow the web link below to download "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." document.

[Download eBook »](#)



[PDF] Sly Fox and Red Hen - Read it Yourself with Ladybird: Level 2

Follow the hyperlink under to download "Sly Fox and Red Hen - Read it Yourself with Ladybird: Level 2" document.

[Save Book »](#)



[PDF] Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2

Follow the hyperlink under to download "Peppa Pig: Nature Trail - Read it Yourself with Ladybird: Level 2" document.

[Save Book »](#)



[PDF] Genuine book Oriental fertile new version of the famous primary school enrollment program: the intellectual development of pre-school Jiang(Chinese Edition)

Follow the hyperlink under to download "Genuine book Oriental fertile new version of the famous primary school enrollment program: the intellectual development of pre-school Jiang(Chinese Edition)" document.

[Save Book »](#)



[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)

Follow the hyperlink under to download "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)" document.

[Save Book »](#)



[PDF] The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2

Follow the hyperlink under to download "The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2" document.

[Save Book »](#)



[PDF] 9787538661545 the new thinking extracurricular required reading series 100 - fell in love with the language: interesting language story(Chinese Edition)

Follow the hyperlink under to download "9787538661545 the new thinking extracurricular required reading series 100 - fell in love with the language: interesting language story(Chinese Edition)" document.

[Save Book »](#)