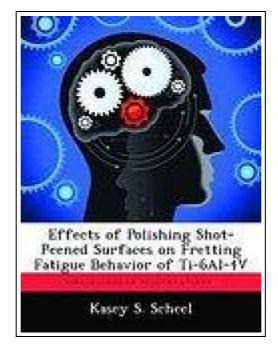
Effects of Polishing Shot-Peened Surfaces on Fretting Fatigue Behavior of Ti-6Al-4V



Filesize: 2.75 MB

Reviews

I actually began reading this article book. It is actually filled with wisdom and knowledge I realized this pdf from my i and dad recommended this publication to learn.

(Rhea Toy)

EFFECTS OF POLISHING SHOT-PEENED SURFACES ON FRETTING FATIGUE BEHAVIOR OF TI-6AL-4V $\,$



Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x5 mm. This item is printed on demand - Print on Demand Neuware - The research of this thesis was done to investigate the effects of polishing a shot-peened specimen of Ti-6Al-4V on the fretting fatigue life. The shot-peening process, though one of the most beneficial techniques in prolonging fretting fatigue life, creates a textured surface that may lead to problems on the micro level. This research was done in an attempt to further improve the peening process by examining the effects of another surface treatment to be used in conjunction, surface polishing. The rough peened surface may contain abrupt changes in surface geometry that act as stress risers, which are more highly prone to crack initiation. Specimens were hand polished after they were peened to remove approximately 25 microns of material from the surface to remove all stress risers while preserving the beneficial residual stresses created by peening. Experiments designed to simulate fretting fatigue similar to previous research were conducted until specimens fractured. Seven experiments were conducted using titanium allow Ti-6Al-4V, shot peened using 7A intensity. All tests were run at ambient air temperature. Fatigue parameters, such as stress range and effective stress, were analyzed. Fretting fatigue conditions were determined and surface roughness measurements of polished and unpolished specimens were taken. It was concluded that, though fatigue life was improved over that of un-peened specimens, the polishing process did not improve the fretting fatigue life of the alloy. 86 pp. Englisch.



Read Effects of Polishing Shot-Peened Surfaces on Fretting Fatigue Behavior of Ti-6Al-4V Online Download PDF Effects of Polishing Shot-Peened Surfaces on Fretting Fatigue Behavior of Ti-6Al-4V

You May Also Like



The Pursued: Is That Drum Beats? Lamar Stein Heard Beats Warning of an Evil Set Loose on Piedmont! This Is the Root Hard or Die Story of the Life and Times of My Father and Mother. My Sister and Me, Bystanders on Appalachian Mountains Hillsides. (Paperbac

 $Create space, United States, 2014. \ Paperback. \ Book \ Condition: New. \ 229 \ x \ 152 \ mm. \ Language: English. \ Brand \ New \ Book \ ***** \ Print on Demand \ *****. Euphoria broke out in the hitching alley by the time my father reached...$

Read Document »



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.

Rarebooksclub.com, United States, 2013. 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 usually...

Read Document »



Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book ***** Print on Demand *****. This isn t porn. Everyone always asks and some of our family thinks...

Read Document »



Report from the Interior. Bericht aus dem Inneren, englische Ausgabe

London Faber & Faber Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 176x111x23 mm. Neuware - ' In the beginning, everything was alive. The smallest objects were endowed with beating hearts . . . ' Having...

Read Document »



Born Fearless: From Kids' Home to SAS to Pirate Hunter - My Life as a Shadow Warrior

Quercus Publishing Plc, 2011. Hardcover. Book Condition: New. No.1 BESTSELLERS - great prices, friendly customer service â" all orders are dispatched next working day.

Read Document »