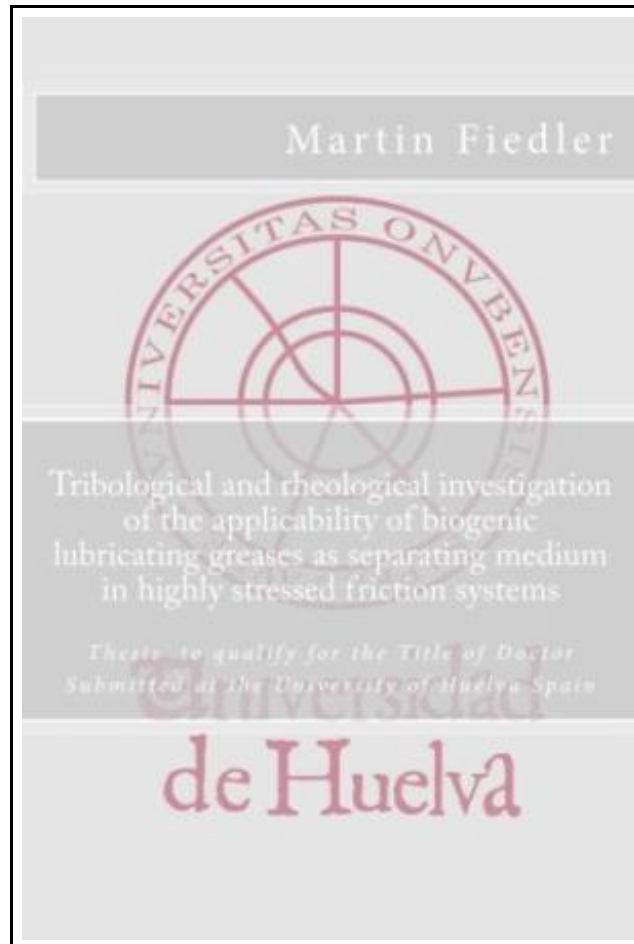


Tribological and Rheological Investigation of the Applicability of Biogenic Lubricating Greases as Separating Medium in Highly Stressed Friction Systems (Paperback)



Filesize: 54.58 KB

Reviews

*These sorts of book is the greatest book offered. This can be for all those who statte that there had not been a really worth reading. I am just quickly could get a pleasure of reading a written ebook.
(Verner Goyette DDS)*

TRIBOLOGICAL AND RHEOLOGICAL INVESTIGATION OF THE APPLICABILITY OF BIOGENIC LUBRICATING GREASES AS SEPARATING MEDIUM IN HIGHLY STRESSED FRICTION SYSTEMS (PAPERBACK)



Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.There is a growing demand of environmentally friendly lubricating greases that presently can only be satisfied partially. The purpose of this work is to fundamentally investigate the effects that grease components exert on the resulting rheological and tribological characteristics. A limited number of different components-that is four different base oils and four structurally different thickener systems-were selected, which qualify these greases as bio-lubricants. All sixteen greases were formulated at identical NLGI grades to eliminate the consistency s influence on the results. These greases then underwent a series of tribological experiments on a nano tribometer test rig with the application of four different normal forces and two different material combinations resulting in individual sets of Hertzian stresses. Additionally, atomic force microscopy observations of all model greases were carried out to give evidence to their micro structural setup. The model greases were also rheologically investigated under different deformation situations. On the one hand, the flow response in transient shear was monitored in rotational tests, on the other hand, the greases were rheologically characterized by both, the frequency and amplitude dependent responses in small-amplitude oscillatory shear. All thus found results were also evaluated from an energetic pointof view. In addition, a series of rather unconventional test were performed with the model greases. These were tensile tests with a plate-plate rheometer where a defined gap was filled with grease and then subjected to a separation of the plates while logging the normal force and bouncing ball tests where a steel ball hit a grease-covered steel plate after having fallen a preset distance. In latter tests the resulting bouncing hight, the length of the drawn grease string as well as the impact mark...



Read Tribological and Rheological Investigation of the Applicability of Biogenic Lubricating Greases as Separating Medium in Highly Stressed Friction Systems (Paperback)

Online



Download PDF Tribological and Rheological Investigation of the Applicability of Biogenic Lubricating Greases as Separating Medium in Highly Stressed Friction Systems (Paperback)

Related Kindle Books



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) (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and...

[Save Document »](#)



Talking Digital: A Parent s Guide for Teaching Kids to Share Smart and Stay Safe Online (Paperback)

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. It is time for the digital talk. Today, kids are growing up in a wired world. Their...

[Save Document »](#)



No Friends?: How to Make Friends Fast and Keep Them (Paperback)

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do You Have NO Friends ? Are you tired of not having any...

[Save Document »](#)



History of the Town of Sutton Massachusetts from 1704 to 1876 (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. annotated edition. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.This version of the History of the Town of Sutton Massachusetts...

[Save Document »](#)



To Thine Own Self (Paperback)

Dog Ear Publishing, United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Carefree and self assured Carolyn loves her life. Her uncle runs...

[Save Document »](#)