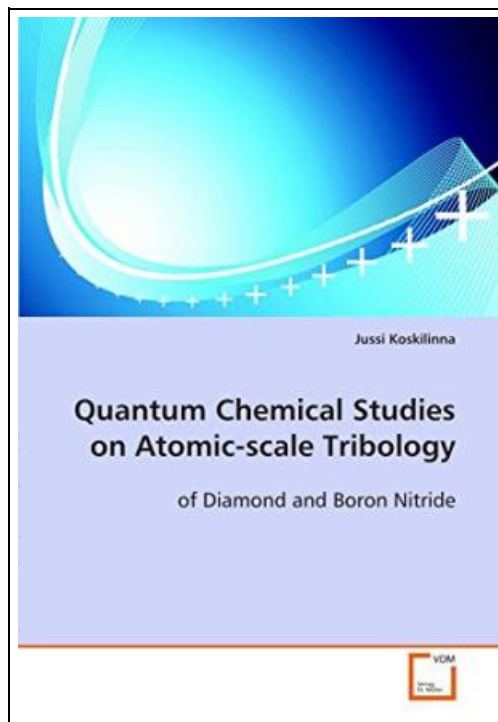


Quantum Chemical Studies on Atomic-scale Tribology



Filesize: 8.55 MB

Reviews

This type of ebook is every little thing and made me looking ahead of time and more. It is among the most amazing book i actually have read through. Its been designed in an exceptionally simple way in fact it is simply soon after i finished reading through this pdf in which actually transformed me, change the way i believe.

(Dr. Ron Kovacek)

QUANTUM CHEMICAL STUDIES ON ATOMIC-SCALE TRIBOLOGY



To get **Quantum Chemical Studies on Atomic-scale Tribology** PDF, remember to follow the web link under and download the document or have accessibility to additional information that are related to QUANTUM CHEMICAL STUDIES ON ATOMIC-SCALE TRIBOLOGY book.

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | of Diamond and Boron Nitride | In this thesis quantum chemical methods have been applied to study the tribology of methylated diamond and cubic and hexagonal boron nitride. Interaction energies between surfaces have been calculated from which friction coefficients are derived. The influence of the size and the nature of the model representing the surface have been examined. The use of periodic models for friction studies has advantages. Periodic models circumvent the difficulties typical to cluster models and produce friction coefficients in close agreement with experimental studies. The studied case of ice-Ih sliding on h-BN represents a novel application of periodic quantum chemical methods for heterogeneous friction system. Tribochemical reactions were found to occur in methylated diamond on methylated diamond and in ice-Ih on h-BN sliding. B3LYP method was shown to be appropriate for friction and tribochemical reaction studies. The studies of diamond, c-BN and h-BN yielded atomic level information of friction and tribochemical reactions. Such information can be applied to design surfaces with tailored frictional properties and choosing proper materials for frictional systems. | Format: Paperback | Language/Sprache: english | 68 pp.



[Read Quantum Chemical Studies on Atomic-scale Tribology Online](#)

[Download PDF Quantum Chemical Studies on Atomic-scale Tribology](#)

Related Kindle Books



[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 link beneath to download and read "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)" PDF file.

[Read PDF »](#)



[PDF] **Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2**

Follow the link beneath to download and read "Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2" PDF file.

[Read PDF »](#)



[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 link beneath to download and read "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 ." PDF file.

[Read PDF »](#)



[PDF] **Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers**

Follow the link beneath to download and read "Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers" PDF file.

[Read PDF »](#)



[PDF] **Learn to Read with Great Speed: How to Take Your Reading Skills to the Next Level and Beyond in Only 10 Minutes a Day**

Follow the link beneath to download and read "Learn to Read with Great Speed: How to Take Your Reading Skills to the Next Level and Beyond in Only 10 Minutes a Day" PDF file.

[Read PDF »](#)



[PDF] **Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback**

Follow the link beneath to download and read "Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback" PDF file.

[Read PDF »](#)