



Surfactants in Tribology, Volume 1

Download now

[Click here](#) if your download doesn't start automatically

Surfactants in Tribology, Volume 1

Surfactants in Tribology, Volume 1

Surfactants play a variety of critical roles in tribology. In addition to controlling friction and wear, they also allow for control of a wide range of properties of lubricants, such as emulsification/demulsification, bioresistance, oxidation resistance, and rust/corrosion prevention. This book explains recent advances in the role of surfactants within the purview of tribology, with an emphasis on product development.

Includes Theoretical, Experimental, and Technological Advances

Providing a unique exploration of the nexus between surfactants and tribology, this text represents the cumulative expertise of leading scientists and technologists engaged in the study of surfactants in variegated tribological phenomena. Organized thematically for easy reference, the volume covers—

- Fundamentals of surfactants
- Tribological aspects of micro- and nanodevices, including micro-patterns of two-dimensional asperity arrays, MEMS, NEMS, and magnetic recording devices
- Self-assembled monolayers and ultra-thin films relevant to tribological phenomena, including aspects of organosilane monolayers, ultrathin self-assembled films, super-hydrophobic films, MoDTC/ZDDP tribofilms, and surfactant-coated copper nanoparticles
- Polymeric and biobased surfactants, covering various tribological aspects related to polymeric gels, elastomers sliding against hydrophilic and hydrophobic surfaces, agriculture-based amphiphiles, vegetable oils, and biobased greases
- Surfactant adsorption and aggregation relevant to tribological phenomena, such as the design of surfactants for lubrication, aqueous non-ionic surfactant-based lubricants, adsorption and aggregation kinetics, surfactant and polymer nanostructures, and engine oils

The first reference to comprehensively treat the relevance of surfactants in tribology, this book is an invaluable guide for individuals engaged in research, development, and manufacturing, especially those engaged in the study of MEMS, NEMS, SAMs, and biodevices.

 [Download Surfactants in Tribology, Volume 1 ...pdf](#)

 [Read Online Surfactants in Tribology, Volume 1 ...pdf](#)

Download and Read Free Online Surfactants in Tribology, Volume 1

From reader reviews:

Lynette Petree:

Information is provisions for individuals to get better life, information nowadays can get by anyone at everywhere. The information can be a knowledge or any news even a problem. What people must be consider if those information which is inside the former life are challenging to be find than now could be taking seriously which one is acceptable to believe or which one often the resource are convinced. If you obtain the unstable resource then you obtain it as your main information there will be huge disadvantage for you. All of those possibilities will not happen within you if you take Surfactants in Tribology, Volume 1 as the daily resource information.

Robert Ford:

Hey guys, do you would like to finds a new book to learn? May be the book with the title Surfactants in Tribology, Volume 1 suitable to you? The particular book was written by well-known writer in this era. Typically the book untitled Surfactants in Tribology, Volume 1 is the one of several books that will everyone read now. This book was inspired many men and women in the world. When you read this publication you will enter the new dimension that you ever know just before. The author explained their plan in the simple way, so all of people can easily to be aware of the core of this publication. This book will give you a wide range of information about this world now. To help you see the represented of the world on this book.

Kenneth Matson:

In this era globalization it is important to someone to receive information. The information will make professionals understand the condition of the world. The healthiness of the world makes the information much easier to share. You can find a lot of recommendations to get information example: internet, newspapers, book, and soon. You will observe that now, a lot of publisher which print many kinds of book. The particular book that recommended to you personally is Surfactants in Tribology, Volume 1 this book consist a lot of the information with the condition of this world now. This kind of book was represented just how can the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. The particular writer made some analysis when he makes this book. That's why this book suitable all of you.

Jack Murray:

Don't be worry when you are afraid that this book will filled the space in your house, you might have it in e-book approach, more simple and reachable. This kind of Surfactants in Tribology, Volume 1 can give you a lot of good friends because by you investigating this one book you have point that they don't and make anyone more like an interesting person. That book can be one of one step for you to get success. This guide offer you information that possibly your friend doesn't realize, by knowing more than some other make you to be great persons. So , why hesitate? We need to have Surfactants in Tribology, Volume 1.

**Download and Read Online Surfactants in Tribology, Volume 1
#P7I6F2ABM0S**

Read Surfactants in Tribology, Volume 1 for online ebook

Surfactants in Tribology, Volume 1 Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Surfactants in Tribology, Volume 1 books to read online.

Online Surfactants in Tribology, Volume 1 ebook PDF download

Surfactants in Tribology, Volume 1 Doc

Surfactants in Tribology, Volume 1 Mobipocket

Surfactants in Tribology, Volume 1 EPub