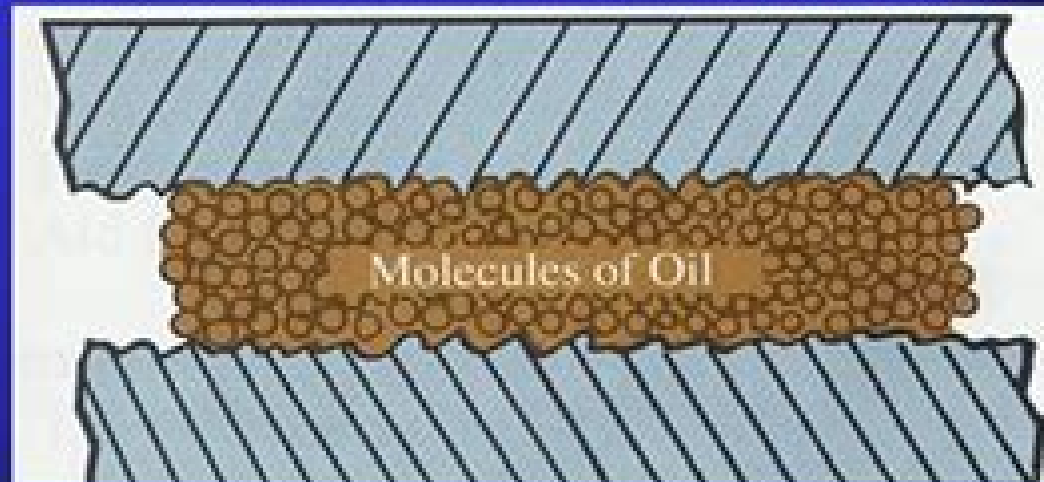


Lubrication

- Lubrication:
 - The process of reducing friction between moving surfaces
- Friction:
 - Resistance created when one surface rubs on another
 - Slows movement of parts
 - Generates heat
 - Increases wear
 - Events: particles - expansion - seizure



Friction And Lubrication Of Solids

F. P. Bowden, D. Tabor



Friction And Lubrication Of Solids:

The Friction and Lubrication of Solids Frank Philip Bowden, David Tabor, 2001 This classic work originally published in 1950 was a landmark in the development of the subject of tribology When it was first published one reviewer wrote that it marks the beginning of a new epoch in the study of friction and lubrication The most interesting and comprehensive work on a single branch of physics I have ever read For the 1986 reprint David Tabor wrote a new preface reviewing developments in the subject in the 36 years since the book first appeared He has also added an appreciation of the life and work of F P Bowden who died in 1968

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Blau, 2008-10-20 Should have broad appeal in many kinds of industry ranging from automotive to computers basically any organization concerned with products having moving parts David A Rigney Materials Science and Engineering Department Ohio State University Columbus USA In Depth Coverage of Frictional Concepts Friction affects so many aspects of daily l

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Fundamentals of Tribology and Bridging the Gap Between the Macro- and Micro/Nanoscales Bharat Bhushan, 2012-12-06 The word tribology was first reported in a landmark report by P Jost in 1966 Lubrication Tribology A Report on the Present Position and Industry's Needs Department of Education and Science HMSO London Tribology is the science and technology of two interacting surfaces in relative motion and of related subjects and practices The popular equivalent is friction wear and lubrication The economic impact of the better understanding of tribology of two interacting surfaces in relative motion is known to be immense Losses resulting from ignorance of tribology amount in the United States alone to about 6 percent of its GNP or about 200 billion dollars per year 1966 and approximately one third of the world's energy resources in present use appear as friction in one form or another A fundamental understanding of the tribology of the head medium interface in magnetic recording is crucial to the future growth of the 100 billion per year information storage industry In the emerging microelectromechanical systems MEMS industry tribology is also recognized as a limiting technology The advent of new scanning probe microscopy SPM techniques starting with the invention of the scanning tunneling microscope in 1981 to measure surface topography adhesion friction wear lubricant film thickness mechanical properties all on a micro to nanometer scale and to image lubricant molecules and the availability of supercomputers to conduct atomic scale simulations has led to the development of a new field referred to as Microtribology Nanotribology or Molecular Tribology see B Bhushan J N Israelachvili and U

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new approaches at the nano and atomic scales covers the physics and chemistry of interfaces an array of visually exciting simulations using molecular dynamics of solids and liquids in sliding contact and related AFM STM studies Following a section on machines and measurements the final chapter discusses future issues in friction

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