

HANDBOOK OF MICRO/NANOTRIBOLOGY

Second Edition; Bharat Bhushan, Editor
A Volume in the Mechanics and Materials Science Series

The second edition of the Handbook is completely updated to include the latest techniques used to measure surface topography, adhesion, friction, wear, lubricant-film thickness, and mechanical properties on a micro to nanometer scale. The ability to produce an image of lubricant molecules and the availability of supercomputers to conduct atomic-scale simulations has led to the development of a new field known as Microtribology, Nanotribology, Molecular Tribology, or Atomic-Scale Tribology. This new edition includes additional applications especially on the topics of magnetic storage and microelectromechanical systems.

For the first time in one book, the leading experts in the world present state-of-the-art applications and research in Micro/Nanotribology.

This book will be an essential reference for engineers, materials scientists, chemists, and physicists working in the areas of research and applications of micromechanical systems (MEMS), magnetic storage systems, and other industrial applications.

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