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POLYMER ADHESION, FRICTION, AND LUBRICATION

Polymer Adhesion, Friction, and Lubrication sets forth a variety of experimental and theoretical methods such as the use of atomic force microscopy and surface forces apparatus to analyze nanotribology. The book's sixteen chapters also explore topics such as: Polymer thin films and brushes;

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Polymer Adhesion, Friction, and Lubrication. March 2013; DOI: 10.1002/9781118505175.ch1. ... in which the relationships between lubrication and friction/adhesion forces are discussed.

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Polymer adhesion, friction, and lubrication

The effect of nanoscale surface roughness on the lubrication properties of a polymer brush in a good solvent has been investigated. Friction and adhesion forces were measured by means of polyethylene colloidal-probe AFM across a 12 nm silica particle gradient before and after the adsorption of a poly(L-lysine)-g-poly(ethylene glycol) (PLL-g-PEG) polymer brush. The adsorption and conformation ...

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Polymer adhesion, friction, and lubrication (eBook, 2013 ...

The adhesion and friction of smooth polymer surfaces were studied below the glass transition temperature by use of a surface forces apparatus. The friction force of a crosslinked polymer was orders of magnitude less than that of an uncrosslinked polymer. In contrast, after chain scission of the outermost layers, the adhesion hysteresis and friction forces increase substantially.

Adhesion and Friction Mechanisms of Polymer-on-Polymer ...

A bead-probe lateral force microscopy (LFM) technique is used to characterize the interfacial friction and adhesion properties of polymer brushes. Our measurements attempt to relate the physical structure and chemical characteristics of the brush to their properties as thin-film, tethered lubricants. Brushes are synthesized at several chain lengths and surface coverages from polymer chains of ...

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