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The subject has matured into a rigorous discipline, and many university tribology and mechanics courses now routinely contain material on magnetic storage

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devices. The major growth in the subject has been on the micro- and nanoscale aspects of tribology and mechanics.

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Effect of Preferential Texturing on the Interfacial Forces in Sub-5 nm Ultra-Low Flying Head-Disk Interfaces.

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Magnetic-recording process is accomplished by relative motion between a magnetic head and a

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magnetic medium. Types of magnetic media for digital recording are: flexible media (tapes and floppy disks) and rigid disks. Physical contact between head and medium occurs during starts and stops and hydrodynamic air film develops at high speeds.

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Tribology and Mechanics of Magnetic Storage Devices. [Bharat Bhushan] -- The increasing demand for higher-density, highly reliable recordings within the magnetic recording industry requires

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of tribology and mechanics of magnetic storage devices. The subject has matured into a rigorous discipline, and

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many university tribology and mechanics courses now routinely contain material on magnetic storage devices. The major growth in the subject has been on the micro- and nanoscale aspects of tribology and mechanics. Today, most large

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The field of tribology (friction, lubrication and wear) is very important in the study of solid mechanics. Tribology is of great economic importance. If the principles of tribology are better understood and applied to reduce friction and wear, its potential cost savings may be a few percentage points of GDP. Solutions to

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tribological problems are often applied in a wide range of technologies, from frictional contact of aircraft engine turbine shrouds to bearing contact of motor vehicle gear ...

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“Tribology is an afterthought: a

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technology used to solve a problem whenever there's a new mechanical system," Chris DellaCorte, senior technologist at NASA's Glenn Research Center, tells Popular...

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Tribology and mechanics of head-disk

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interface are critical technologies, and the fundamental understanding of which is crucial to the future of the fast-growing magnetic recording industry. Micro/nanotribological tools and techniques are commonly used today to develop fundamental understanding of the tribological processes at the head-disk interface.

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Part One: Mechanics and Tribology of Magnetic Rigid Disk ...

As head of the Tribology and Mechanics Lab at UCSD's Center for Magnetic Recording, Professor Talke is at the forefront of this effort with research that takes place where borders blur between mechanics, physics, and chemistry.

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Frank Talke | Mechanical and Aerospace Engineering

Bhushan was the Founding Chair of the Symposium on Tribology and Mechanics of Magnetic Storage Systems ASME/STLE Tribology Conference in 1984. He has served as a member of the ASME Research Committee on Tribology and

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Bhushan receives ASME award for lifetime achievement in ...

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