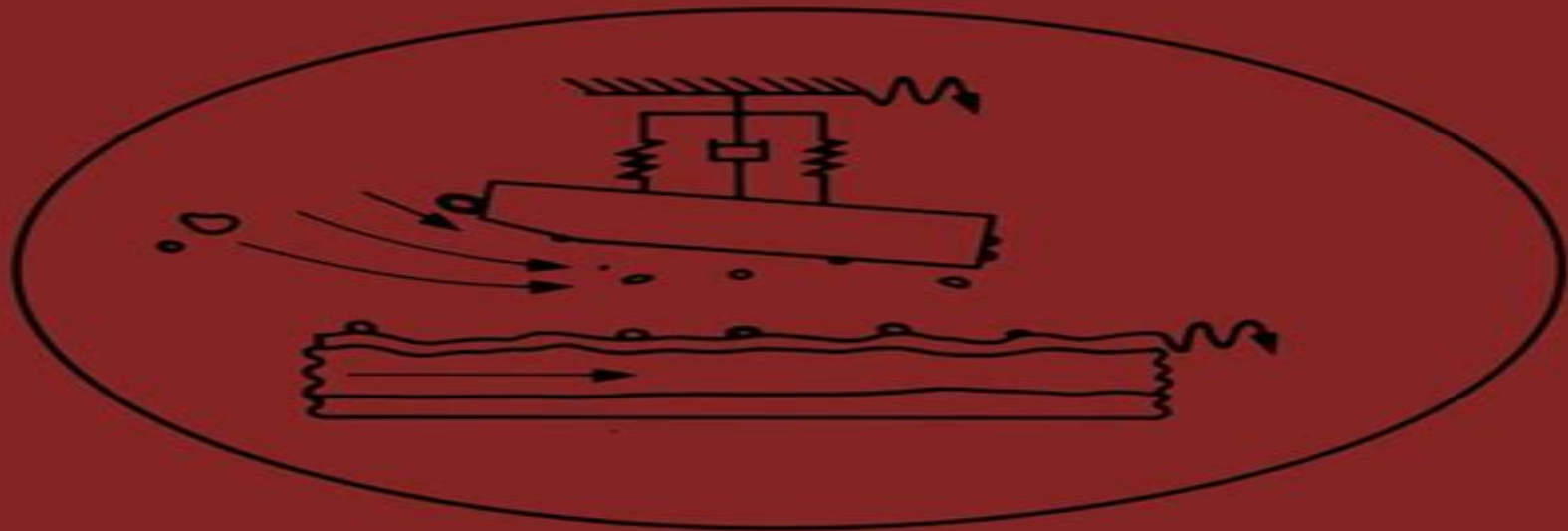


Bharat Bhushan

Tribology and Mechanics of Magnetic Storage Devices



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Ahmad Razlan Yusoff, Ismed Iskandar



Tribology And Mechanics Of Magnetic Storage Devices:

Tribology and Mechanics of Magnetic Storage Devices Bharat Bhushan, 2012-12-06 Magnetic recording is presently a 50 billion industry. It spans audio, video and digital applications in the form of tapes and disks. The industry is expected to grow by a factor of five or more in the next decade. This growth will be accompanied by dramatic improvements in the technology and the potential exists for magnetic recording densities to improve by at least one order of magnitude. Magnetic recording process is accomplished by relative motion between a magnetic head and a 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. Flying heights mean separation between head and medium are on the order of 0.1 micrometer, comparable to surface roughness of the mating members. Need for higher and higher recording densities requires that surfaces be as smooth as possible and flying heights be as low as possible. Smoother surfaces lead to increased static kinetic friction and wear. In the case of magnetic tapes, in order to have high bit capacity for a given size of a spool, we like to use as thin a tape substrate as possible. Thinner tapes are prone to local or bulk viscoelastic deformation during storage. This may lead to variations in head tape separations resulting in problems in data reliability.

Tribology of Magnetic Storage Systems Bharat Bhushan, 1998-03-13 Tribology of Magnetic Storage Systems is dedicated to the modern developments in the macro and microtribology and mechanics of magnetic storage systems. This collection of papers, previously published as Special Issues of the Proceedings of the Institution of Mechanical Engineers in the Journal of Engineering Tribology Part J, makes recent research in this important and rapidly developing area of engineering tribology accessible to industrial and academic researchers worldwide. The need for higher and higher recording densities in the modern magnetic recording process requires that surfaces be as smooth as possible and flying height be as small as possible in the interaction between magnetic medium and magnetic head. This presents significant challenges to researchers and designers within the industry. New techniques in atomic force microscopy and friction force microscopy have led to the development of the science of microtribology. Studies within this field are being conducted to enhance understanding of interfacial phenomena in magnetic storage devices.

Nanotribology and Nanomechanics Bharat Bhushan, 2017-04-05 This textbook and comprehensive reference source serves as a timely practical introduction to the principles of nanotribology and nanomechanics. This 4th edition has been completely revised and updated, concentrating on the key measurement techniques, their applications and theoretical modeling of interfaces. It provides condensed knowledge of the field from the mechanics and materials science perspectives to graduate students, research workers and practicing engineers.

Nanotribology and Nanomechanics II Bharat Bhushan, 2011-05-30 The comprehensive reference and textbook serves as a timely practical introduction to the principles of nanotribology and nanomechanics. Assuming some familiarity with macroscopic tribology, the book comprises chapters by internationally

recognized experts who integrate knowledge of the field from the mechanics and materials science perspectives They cover key measurement techniques their applications and theoretical modelling of interfaces each beginning their contributions with macro and progressing to microconcepts

Modern Tribology Handbook, Two Volume Set Bharat Bhushan, 2000-12-28 Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale The results have resonated throughout the field of tribology For example new applications require detailed understanding of the tribological process on macro and micro scales and new knowledge guides the rational

Handbook of Micro/Nano Tribology Bharat Bhushan, 2020-10-28 This second edition of Handbook of Micro Nanotribology addresses the rapid evolution within this field serving as a reference for the novice and the expert alike Two parts divide this handbook Part I covers basic studies and Part II addresses design construction and applications to magnetic storage devices and MEMS Discussions include surface physics and methods for physically and chemically characterizing solid surfaces roughness characterization and static contact models using fractal analysis sliding at the interface and friction on an atomic scale scratching and wear as a result of sliding nanofabrication nanomachining as well as nano picondentation lubricants for minimizing friction and wear surface forces and microrheology of thin liquid films measurement of nanomechanical properties of surfaces and thin films atomic scale simulations of interfacial phenomena micro nanotribology and micro nanomechanics of magnetic storage devices This comprehensive book contains 16 chapters contributed by more than 20 international researchers In each chapter the presentation starts with macroconcepts and then lead to microconcepts With more than 500 illustrations and 50 tables Handbook of Micro Nanotribology covers the range of relevant topics including characterization of solid surfaces measurement techniques and applications and theoretical modeling of interfaces What's New in the Second Edition New chapters on AFM instrumentation Surface forces and adhesion Design and construction of magnetic storage devices Microdynamical devices and systems Mechanical properties of materials in microstructure Micro nanotribology and micro nanomechanics of MEMS devices

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Magnetic Recording Technology C. Denis Mee, Eric D. Daniel, 1996 This book is concerned with establishing the underlying technologies that are common to all forms of magnetic

recording adaptable to a wide variety of data video and audio applications both at the business and consumer levels Preface p xv

Handbook of Micro/Nano Tribology Bharat Bhushan, 2020-10-28 This second edition of Handbook of Micro Nanotribology addresses the rapid evolution within this field serving as a reference for the novice and the expert alike Two parts divide this handbook Part I covers basic studies and Part II addresses design construction and applications to magnetic storage devices and MEMS Discussions include surface physics and methods for physically and chemically characterizing solid surfaces roughness characterization and static contact models using fractal analysis sliding at the interface and friction on an atomic scale scratching and wear as a result of sliding nanofabrication nanomachining as well as nano picondensation lubricants for minimizing friction and wear surface forces and microrheology of thin liquid films measurement of nanomechanical properties of surfaces and thin films atomic scale simulations of interfacial phenomena micro nanotribology and micro nanomechanics of magnetic storage devices This comprehensive book contains 16 chapters contributed by more than 20 international researchers In each chapter the presentation starts with macroconcepts and then lead to microconcepts With more than 500 illustrations and 50 tables Handbook of Micro Nanotribology covers the range of relevant topics including characterization of solid surfaces measurement techniques and applications and theoretical modeling of interfaces What's New in the Second Edition New chapters on AFM instrumentation Surface forces and adhesion Design and construction of magnetic storage devices Microdynamical devices and systems Mechanical properties of materials in microstructure Micro nanotribology and micro nanomechanics of MEMS devices

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ASME Technical Papers, 2001

Deposition, Characterization and Tribological Studies on Carbon Overcoats for Magnetic Storage Disks Tse-An Yeh, 1993

Lubrication Engineering, 1999

Manufacturing Engineering Ahmad Razlan Yusoff, Ismed Iskandar, 2014-02-27 Selected peer reviewed papers from the 1st International Manufacturing Engineering Conference iMEC 2013 July 1 3 2013 Gambang Kuantan Pahang Malaysia

New Directions in Tribology Ian M. Hutchings, 1997-03-13 This volume contains 35 presentations on the developments and advances made in tribology Subjects discussed include surface engineering rolling bearings thermal effects in tribo systems and environmental issues in tribology

Paper, 2001

The Effect of Interfacial Conformity on the Contact, Adhesion, and Sliding Friction of Surfaces with Small Roughness Herbert Mark Stanley, 1993

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