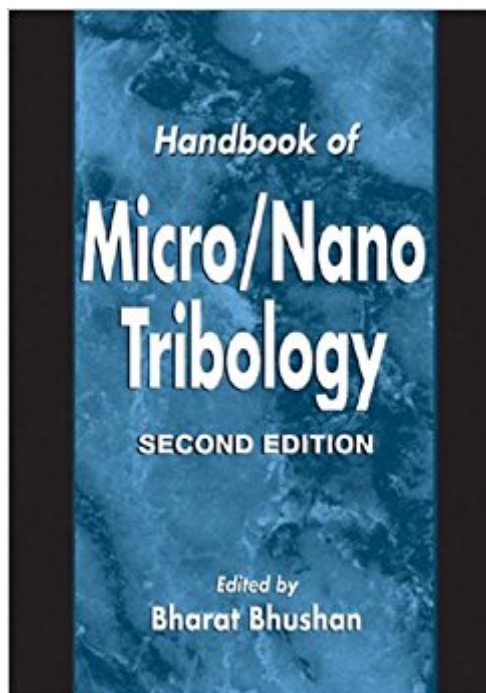




Ebook Directory
the best source of ebook

The book was found

Handbook Of Micro/Nano Tribology, Second Edition (Mechanics & Materials Science)



Synopsis

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/picoindentation 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

Book Information

Series: Mechanics & Materials Science

Hardcover: 880 pages

Publisher: CRC Press; 2nd edition (December 17, 1998)

Language: English

ISBN-10: 0849384028

ISBN-13: 978-0849384028

Product Dimensions: 1.5 x 7.5 x 10.2 inches

Shipping Weight: 3.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,835,001 in Books (See Top 100 in Books) #51 in [Books > Engineering & Transportation > Engineering > Mechanical > Tribology](#) #177 in [Books > Medical Books > Medicine > Prosthesis](#) #664 in [Books > Science & Math > Technology > Nanotechnology](#)

[Download to continue reading...](#)

Handbook of Micro/Nano Tribology, Second Edition (Mechanics & Materials Science) Tribology of Polymeric Nanocomposites, Volume 55, Second Edition: Friction and Wear of Bulk Materials and Coatings (Tribology and Interface Engineering) Tribology of Plastic Materials: Their Characteristics and Applications to Sliding Components (Tribology Series) Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and Applications in Surface Engineering (Tribology and Interface Engineering) Enzyme Nanoparticles: Preparation, Characterisation, Properties and Applications (Micro and Nano Technologies) Fundamentals of Tribology and Bridging the Gap Between the Macro- and Micro/Nanoscales (Nato Science Series II:) Tribology of Elastomers, Volume 47 (Tribology and Interface Engineering) Engineering Tribology (Tribology Series) Tribology in Electrical Environments, Volume 49 (Tribology and Interface Engineering) Nano-Optics for Enhancing Light-Matter Interactions on a Molecular Scale: Plasmonics, Photonic Materials and Sub-Wavelength Resolution (NATO Science ... Security Series B: Physics and Biophysics) Micro Irrigation Management: Technological Advances and Their Applications (Innovations and Challenges in Micro Irrigation) ECON MICRO (with ECON MICRO Online, 1 term (6 months) Printed Access Card) (New, Engaging Titles from 4LTR Press) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Tribology, Second Edition: Friction and Wear of Engineering Materials CRC Handbook of Lubrication and Tribology, Volume III: Monitoring, Materials, Synthetic Lubricants, and Applications, Volume III Handbook of Tribology: Materials, Coatings, and Surface Treatments Tribology of Ceramics and Composites: Materials Science Perspective Mechanics Of Composite Materials (Materials Science & Engineering Series) Handbook of Lubrication and Tribology, Volume II: Theory and Design, Second Edition The Tribology Handbook, Second Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)