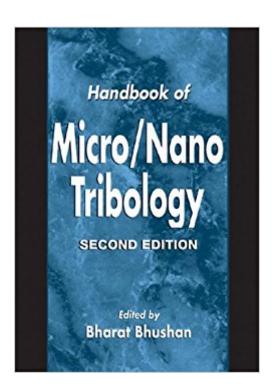


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Handbook Of Micro/Nano Tribology, Second Edition (Mechanics & Materials Science)





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 surfacesroughness characterization and static contact models using fractal analysissliding at the interface and friction on an atomic scalescratching and wear as a result of slidingnanofabrication/nanomachining as well as nano/picoindentationlubricants for minimizing friction and wearsurface forces and microrheology of thin liquid filmsmeasurement of nanomechanical properties of surfaces and thin filmsatomic-scale simulations of interfacial phenomenamicro/nanotribology and micro/nanomechanics of magnetic storage devicesThis 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 instrumentationSurface forces and adhesionDesign and construction of magnetic storage devicesMicrodynamical devices and systemsMechanical properties of materials in microstructureMicro/nanotribology and micro/nanomechanics of MEMS devices

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