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Mechanical Tribology: Materials, Characterization, and Applications

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Mechanical Tribology: Materials, Characterization, and Applications

Mechanical Tribology: Materials, Characterization, and Applications
Studying the morphology, defects, and wear behavior of a variety of material surfaces, Mechanical Tribology examines popular and emerging surface characterization techniques for assessment of the physical, mechanical, and chemical properties of various modified surfaces, thin films, and coatings.

Its chapters explore a wide range of tribological applications while promoting reduced component deterioration and improved efficiency and reliability of mechanical systems. The book includes extensive coverage of critical technologies that are usually absent in other references on the subject, delving into procedures affecting metal cutting and forming, physicochemical issues involved in the design of fiber finishes, and recent progress in biotribological research. It provides strategies to characterize the friction and wear properties of tribological systems and procedures to assess the quality and lifetime of ceramic materials. It also outlines methods to avoid scuffing and seizure in machine operations and novel techniques to prevent oil from spreading and creeping in lubricating applications.

Mechanical Tribology is a practical guide for mechanical, industrial, chemical, process, design, and process engineers, materials scientists, and tribologists in the selection of materials, surface treatments, coatings, and environments best suited for a particular industrial application.

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