

Principles And Applications Of Tribology

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PRINCIPLES AND APPLICATIONS OF TRIBOLOGY

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Introduction - Principles and Applications of Tribology ...

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The early focus of tribology was on improving operation and extending the lifecycle of industrial machinery. Today, those principles and design benefits are making a major impact in a variety of modern applications, such as biomedical, nanotechnology, alternative energies, and “green” methodologies. Here are some examples.

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It moves from basic theory to practice, examining tribology from the integrated viewpoint of mechanical engineering, mechanics, and materials science. It offers detailed coverage of the mechanisms of material wear, friction, and all of the major lubrication techniques - liquids, solids, and gases - and examines a wide range of both traditional and state-of-the-art applications.

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Updated to include the timely and important topics of MEMS and rolling friction, Principles of Tribology is a compilation of current developments from tribology research, coupled with tribology fundamentals and applications.

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The first part of the book starts with the principles of tribology and prepares the students to understand the tribology of industrial applications. The principles of tribology follow with materials, coatings, and surface treatments for tribology. The last chapter describes the tribological components and applications.

PRINCIPLESAND APPLICATIONSOF TRIBOLOGY

Professors Wen and Huang present current developments in tribology research along with tribology fundamentals and applications, including lubrication theory, lubrication design, friction mechanism, wear mechanism, friction control, and their applications. In addition to classical tribology, Wen and Huang cover the research areas of the modern tribology, as well as the regularities and characteristics of tribological phenomena in practice.

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Bearing Tribology Principles and Applications to write the main line to the friction. wear and lubrication of the bearing system bearing tribology theory and tried to reflect the whole picture of the bearing tribology. as much as possible to introduce new areas of research and development trend.