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Friction Science and Technology: From Concepts to Applications, Second Edition (Mechanical Engineering)

Peter J. Blau

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"Should have broad appeal in many kinds of industry, ranging from automotive to computers?basically any organization concerned with products having moving parts!"

?David A. Rigney, Materials Science and Engineering Department, Ohio State University, Columbus, USA

In-Depth Coverage of Frictional Concepts

Friction affects so many aspects of daily life that most take it for granted. Arguably, mankind’s attempt to control friction dates back to the invention of the wheel. **Friction Science and Technology: From Concepts to Applications, Second Edition** presents a broad, multidisciplinary overview of the constantly moving field of friction, spanning the history of friction studies to the evolution of measurement instruments. It reviews the gamut of friction test methods, ranging from simple inclined plans to sophisticated laboratory tribometers.

The book starts with introductory concepts about friction and progressively delves into the more subtle fundamentals of surface contact, use of various lubricants, and specific applications such as brakes, piston rings, and machine components.

Includes American Society of Testing and Management (ASTM) Standards

This volume covers multiple facets of friction, with numerous interesting and unusual examples of friction-related technologies not found in other tribology books. These include:

- Friction in winter sports
- Friction of touch and human skin
- Friction of footware and biomaterials
- Friction drilling of metals
- Friction of tires and road surfaces

Describing the tools of the trade for friction research, this edition enables engineers to purchase or build their own devices. It also discusses frictional behavior of a wide range of materials, coatings, and surface treatments, both traditional and advanced, such as thermally oxidized titanium alloys, nanocomposites, ultra-

low friction films, laser-dimpled ceramics, and carbon composites.

Even after centuries of study, friction continues to conceal its subtle origins, especially in practical engineering situations in which surfaces are exposed to complex and changing environments. Authored by a field specialist with more than 30 years of experience, this one-stop resource discusses all aspects of friction, from its humble beginnings to its broad application for modern engineers.

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