



Introduction to Tribology

By Bharat Bhushan

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Coverage of critical cutting-edge topics including MEMS, nanotribology and magnetic surface storage technologies.

* Integrates the knowledge of tribology from mechanical engineering, mechanics, and materials science points of view.

* Covers both the underlying theory and the current applications of tribology to industry.

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Editorial Review

From the Back Cover

Complete coverage from fundamentals to cutting-edge applications

A solid understanding of tribology is essential for engineers in many fields working to design and ensure the reliability of machine parts and systems. This Introduction to Tribology presents detailed coverage of the mechanisms of friction, material wear, and all major lubrication techniques-liquids, solids, and gases-along with traditional and state-of-the-art applications, as well as the latest material coverage of micro/nanotribology, MEMS, and magnetic surface storage applications.

The underlying theory and current applications of tribology are covered in an integrated treatment taken from a mechanical engineering, mechanics, and materials science point of view. This book's straightforward presentation begins with the principles of tribology and prepares readers to understand the industrial applications of tribology. The principles of tribology and the emerging field of micro/nanotribology are then explored, and, finally, the author looks at tribological components and applications.

Complete with exercises and problems, Introduction to Tribology is invaluable to mechanical, chemical, and materials engineers in product and process design, as well as students in mechanical, chemical, and materials engineering and physics courses.

About the Author

BHARAT BHUSHAN, PhD, DSc (Hon.), is an Ohio Eminent Scholar and Howard D. Winbigler Professor at The Ohio State University in Columbus, where he also serves as Director of the Nanotribology Laboratory for Information Storage and MEMS/NEMS (NLIM).

Users Review

From reader reviews:

Wm Schroeder:

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