

HANDBOOK OF TRIBOLOGY:

Materials, Coatings, and Surface Treatments



by *Bharat Bhushan & B. K. Gupta*

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Here's a major handbook with detailed, authoritative coverage of tribology, including (1) physics of materials, (2) an overview of soft, solid-lubricants and hard, wear-resistant coatings and their deposition techniques, and (3) surface treatment techniques and the latest engineering specifications. An in-depth review of various coating deposition processes allows an intelligent selection for the most suitable deposition techniques. This sourcebook will provide data, mostly in tabular form, on friction and wear characteristics of bulk materials, allowing the user to decide the appropriate course of action for selecting the proper coating material, as well as surface treatment techniques for maximum friction and wear reduction.

Dr. Bharat Bhushan, a pioneer of tribology and mechanics of magnetic storage devices, is an internationally recognized expert in the general fields of conventional tribology and micro/nanotribology and one of the most prolific authors. He is presently an Ohio Eminent Scholar and the Howard D. Winbiger Professor in the Department of Mechanical Engineering and Director of the Computer Microtribology and Contamination Laboratory at The Ohio State University, Columbus, Ohio.

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