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Handbook Of Tribology: Materials, Coatings, And Surface Treatments



Synopsis

The first comprehensive applications-oriented handbook on the materials and treatments for reducing friction and wear in machinery. The authors present a practical and straightforward explanation of the principles of tribology - friction, wear, surface treatments, and lubrication - and illustrate how to apply these principles to minimize stress on a machine's moving parts. This applications-oriented handbook provides designers with all the information and guidance needed to evaluate the friction and wear characteristics of materials, using easy-to-read tables and charts, identify the materials, coatings, processes and surface treatment techniques that prolong machine life, and set and meet design criteria using field-tested techniques and the authors' expert recommendations. This handbook fills a major gap in the information needed to build and maintain machinery. It will become an essential resource and on-the-job tool for mechanical, design and maintenance engineers, as well as a reference for materials science professionals.

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