

Tribosystem Analysis

A Practical Approach to the Diagnosis of Wear Problems

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This book provides a systematic framework for conducting root cause analyses and categorizing various types of wear. Designed for engineers without training in tribology, the text describes direct and indirect methods for detecting and quantifying wear problems, surveys different microscopy techniques, discusses the selection of wear and friction test methods, and presents numerous practical examples. Complete with checklists to ensure the right questions are asked during diagnosis, this book offers pragmatic guidance for defining wear problems in the context of the materials and their surroundings.

KEY FEATURES

- Defines the meaning of the term tribosystem
- Explains how wear problems manifest themselves
- Offers a formalized approach to categorizing various types of wear
- Reviews common tools for observing and characterizing wear and surface damage
- Outlines specialized techniques such as taper-sectioning and dynamic gray-level imaging
- Includes numerous examples of the tribosystem analysis concept in use and of the options available to solve wear problems

SELECTED CONTENTS

What Is a Tribosystem? How Wear Problems Reveal Themselves. Types of Surface Damage and Wear. Tools for Imaging and Characterizing Worn Surfaces. The Tribosystem Analysis Form. Wear Problem Solving—The Next Steps.

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