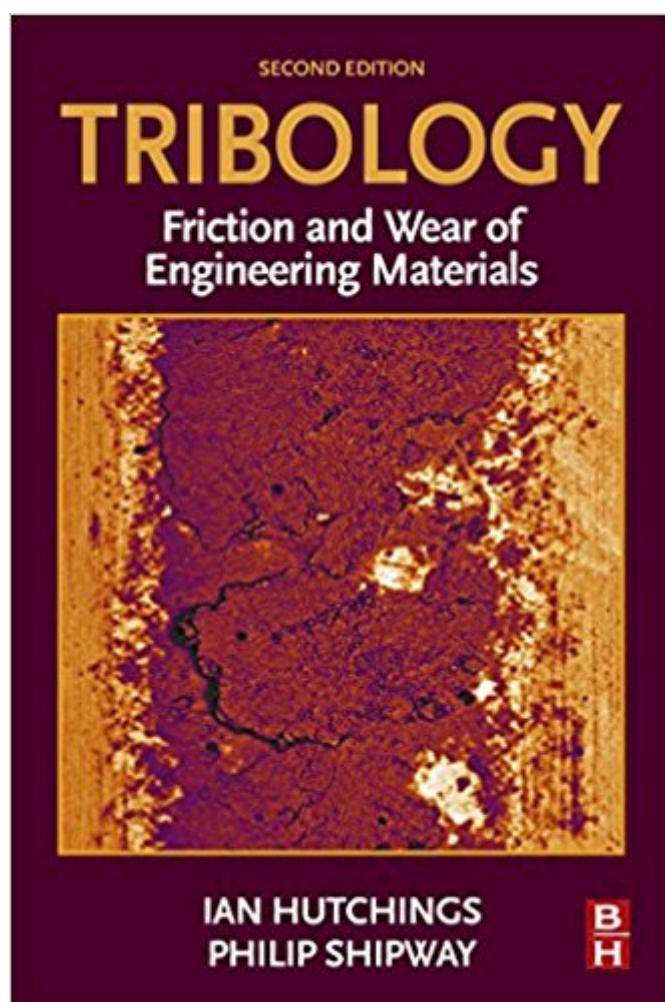


The book was found

# Tribology: Friction And Wear Of Engineering Materials



## Synopsis

Tribology: Friction and Wear of Engineering Materials, Second Edition covers the fundamentals of tribology and the tribological response of all classes of materials, including metals, ceramics, and polymers. This fully updated and expanded book maintains its core emphasis on friction and wear of materials, but now also has a strengthened coverage of the more traditional tribological topics of contact mechanics and lubrication. It provides a solid scientific foundation that will allow readers to formulate appropriate solutions when faced with practical problems, as well as to design, perform and interpret meaningful tribological tests in the laboratory. Topics include the fundamentals of surface topography and contact mechanics, friction, lubrication, and wear (including tribo-corrosion), as well as surface engineering, selection of materials and design aspects. The book includes case studies on bearings, automotive tribology, manufacturing processes, medical engineering and magnetic data storage that illustrate some of the modern engineering applications in which tribological principles play vital roles. Each chapter is complemented by a set of questions suitable for self-study as well as classroom use. This book provides valuable material for advanced undergraduates and postgraduates studying mechanical engineering, materials science and other technical disciplines, and will also be a useful first reference point for any engineer or scientist who encounters tribological issues. Provides an excellent general introduction to friction, wear, and lubrication of materials. Acts as the ideal entry point to the research literature in tribology. Provides the tribological principles to underpin the design process. Through systematic coverage of the subject and appropriate questions, develops the reader's understanding and knowledge of tribology in a logical progression.

## Book Information

File Size: 45012 KB

Print Length: 384 pages

Page Numbers Source ISBN: 0081009100

Publisher: Butterworth-Heinemann; 2 edition (April 13, 2017)

Publication Date: April 13, 2017

Sold by: Digital Services LLC

Language: English

ASIN: B06ZZ1MLP4

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #821,589 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #12

inÃ  Books > Engineering & Transportation > Engineering > Mechanical > Tribology #109

inÃ  Kindle Store > Kindle eBooks > Nonfiction > Science > Chemistry > Physical & Theoretical

#201 inÃ  Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Materials

Science

## Customer Reviews

I have used the first edition of this book since it was first published. For myself its major attribute is that it is a concise, digestible, and practical guide to tribology. Like many of my colleagues, tribology is an essential part of machine design. However, when developing processes, this is one of many fields that must be assimilated and incorporated into the day to day challenges in our profession. Consequently, there are a lot of engineers and experimental scientists who do not need to be experts but want to get up to speed quickly. This is the book for that professional. This new edition is around 100 pages longer. However, a substantial amount of the new material is practical guidance and illustrative application discussion that, in my opinion, strengthens its relevance to practicing engineering professionals. The length of the book is still within the scope of a single semester course on the subject and therefore, also hits the target as an introductory text for senior level undergraduate and introductory graduate university courses.

[Download to continue reading...](#)

Tribology of Polymeric Nanocomposites, Volume 55, Second Edition: Friction and Wear of Bulk

Materials and Coatings (Tribology and Interface Engineering) Tribology, Second Edition: Friction

and Wear of Engineering Materials Tribology: Friction and Wear of Engineering Materials Industrial

Tribology: Tribosystems, Friction, Wear and Surface Engineering, Lubrication Tribology in

Metalworking: Friction, Lubrication and Wear Tribology Data Handbook: An Excellent Friction,

Lubrication, and Wear Resource (Handbook of Lubrication) The Cutting Edge of Tribology: A

Decade of Progress in Friction, Lubrication and Wear Tribology: Friction, Lubrication and Wear

Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and

Applications in Surface Engineering (Tribology and Interface Engineering) Friction and Wear in

Polymer-Based Materials Friction and Wear of Polymer Composites (Composite Materials Series 1)

Tribology of Plastic Materials: Their Characteristics and Applications to Sliding Components

(Tribology Series) Tribology of Elastomers, Volume 47 (Tribology and Interface Engineering) Tribology in Electrical Environments, Volume 49 (Tribology and Interface Engineering) Engineering Tribology (Tribology Series) New Directions in Lubrication, Materials, Wear, and Surface Interactions: Tribology in the 80's Some Wear Leather, Some Wear Lace: The Worldwide Compendium of Postpunk and Goth in the 1980s Engineering Materials 3: Materials Failure Analysis: Case Studies and Design Implications (International Series on Materials Science and Technology) (v. 3) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)