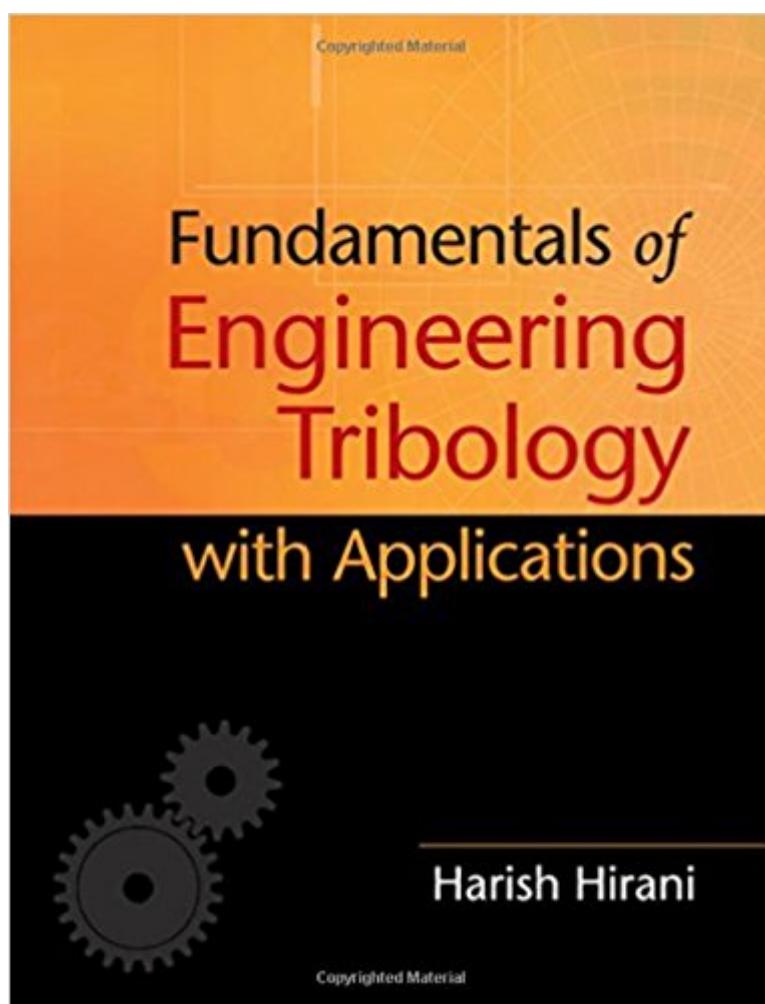


The book was found

# Fundamentals Of Engineering Tribology With Applications



## **Synopsis**

Tribology is related to friction, wear and lubrication of machine elements. Tribology not only deals with the design of fluid containment systems like seals and gasket but also with the lubrication of surfaces in relative motion. This book comprehensively discusses the theories and applications of hydrodynamic thrust bearing, gas (air) lubricated bearing and elasto-hydrodynamic lubrication. It elucidates the concepts related to friction, including coefficient of friction, friction instability and stick-slip motion. It clarifies the misconception that harder and cleaner surfaces produce better results in wear. Recent developments, including online condition monitoring (an integration of moisture sensor, wear debris and oil quality sensors) and multigrid technique, are discussed in detail. The book also offers design problems and their real-life applications for cams, followers, gears and bearings. MATLAB programs, frequently asked questions and multiple choice questions are interspersed throughout for easy understanding of the topics.

## **Book Information**

Hardcover: 442 pages

Publisher: Cambridge University Press; 1 edition (March 11, 2016)

Language: English

ISBN-10: 1107063876

ISBN-13: 978-1107063877

Product Dimensions: 6.7 x 1.1 x 9.6 inches

Shipping Weight: 2 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,922,880 in Books (See Top 100 in Books) #37 in Books > Engineering & Transportation > Engineering > Mechanical > Tribology #688 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #2063 in Books > Science & Math > Physics > Dynamics

## **Customer Reviews**

This book introduces the basic concepts of tribology and its applications related to friction, wear and lubrication of machine elements. Real-life applications, MATLAB programs and multiple choice questions are provided throughout the text for easy understanding of the topics.

Harish Hirani received his PhD from the Indian Institute of Technology, Delhi. He was a visiting researcher at Massachusetts Institute of Technology, USA, from 2003 to 2004. He has published

nearly 35 papers in national and international journals. His areas of interest are semi-active magneto rheological bearing, rolling element bearing, hydrodynamic bearing and seals.

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

Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and Applications in Surface Engineering (Tribology and Interface Engineering) Tribology of Plastic Materials: Their Characteristics and Applications to Sliding Components (Tribology Series) Tribology of Polymeric Nanocomposites, Volume 55, Second Edition: Friction and Wear of Bulk Materials and Coatings (Tribology and Interface Engineering) Tribology of Elastomers, Volume 47 (Tribology and Interface Engineering) Engineering Tribology (Tribology Series) Tribology in Electrical Environments, Volume 49 (Tribology and Interface Engineering) Fundamentals of Engineering Tribology with Applications Tribology and Dynamics of Engine and Powertrain: Fundamentals, Applications and Future Trends (Woodhead Publishing in Mechanical Engineering) Tribology of Diamond-like Carbon Films: Fundamentals and Applications Engineering Fundamentals: An Introduction to Engineering (Activate Learning with these NEW titles from Engineering!) Tissue Engineering II: Basics of Tissue Engineering and Tissue Applications (Advances in Biochemical Engineering/Biotechnology) Fundamentals of Tribology (2nd Edition) Fundamentals of Tribology and Bridging the Gap Between the Macro- and Micro/Nanoscales (Nato Science Series II:) CRC Handbook of Lubrication and Tribology, Volume III: Monitoring, Materials, Synthetic Lubricants, and Applications, Volume III Principles and Applications of Tribology Engineering Tribology, Fourth Edition Tribology, Second Edition: Friction and Wear of Engineering Materials Tribology: Friction and Wear of Engineering Materials Engineering Tribology, Third Edition ENGINEERING TRIBOLOGY

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)