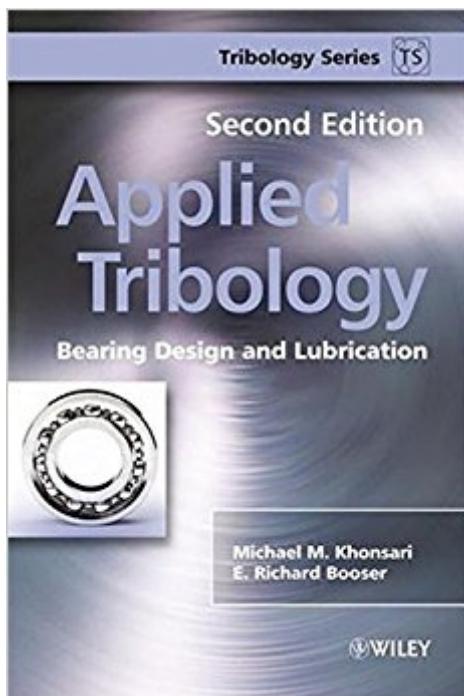


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# Applied Tribology: Bearing Design And Lubrication



## Synopsis

Applications of tribological technology in bearings are wide and varied in industries ranging from aerospace, marine and automotive to power, process, petrochemical and construction. Applied Tribology, 2nd edition not only covers tribology in bearings but demonstrates the same principles for other machine components, such as piston pins, piston rings and hydrostatic lifts, as well as in more recent technologies such as gas bearings in high-speed machines and computer read-write devices. Maintaining a balance between theoretical analysis and practical experience with co-authors from academia and industry, this new edition is significantly revised and expanded with new material. Features include; 

- Two brand new chapters on seals and bearing failure modes and bearing health monitoring techniques
- Coverage of new developments in full-film, dry, and partial lubrication; gas bearings; and ball and roller bearings
- Design guides based on full Reynolds equation that enable accurate prediction of load capacity, power loss, temperature rise
- Comprehensive presentation of important design factors involving material and lubricants.
- State-of-the-art presentation and up-to-date references of pertinent scientific and applied topics in tribology
- Numerous examples that reinforce the understanding of concepts and provide procedures for the design and performance analysis of components

Applied Tribology, 2nd edition provides a valuable and authoritative resource for mechanical engineering professionals working in a wide range of industries with machinery including turbines, compressors, motors, electrical appliances & electronic components. Senior and graduate students in mechanical engineering will also find it a useful text and reference.

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## Customer Reviews

Applications of tribological technology in bearings are wide and varied in industries ranging from aerospace, marine and automotive to power, process, petrochemical and construction. Applied Tribology, 2nd edition not only covers tribology in bearings but demonstrates the same principles for other machine components, such as piston pins, piston rings and hydrostatic lifts, as well as in more recent technologies such as gas bearings in high-speed machines and computer read-write devices. Maintaining a balance between theoretical analysis and practical experience with co-authors from academia and industry, this new edition is significantly revised and expanded with new material. Features include; Two brand new chapters on seals and bearing failure modes and bearing health monitoring techniques Coverage of new developments in full-film, dry, and partial lubrication; gas bearings; and ball and roller bearings Design guides based on full Reynolds equation that enable accurate prediction of load capacity, power loss, temperature rise Comprehensive presentation of important design factors involving material and lubricants. State-of-the-art presentation and up-to-date references of pertinent scientific and applied topics in tribology Numerous examples that reinforce the understanding of concepts and provide procedures for the design and performance analysis of components Applied Tribology, 2nd edition provides a valuable and authoritative resource for mechanical engineering professionals working in a wide range of industries with machinery including turbines, compressors, motors, electrical appliances & electronic components. Senior and graduate students in mechanical engineering will also find it a useful text and reference.

MICHAEL M. KHONSARI, PhD, is Dow Chemical Endowed Chair in Rotating Machinery and Professor in the Department of Mechanical Engineering at Louisiana State University, Baton Rouge. E. RICHARD BOOSER, PhD, is an engineering consultant based in Niskayuna, New York. --This text refers to an out of print or unavailable edition of this title.

The book is easy to read even if you are not a tribology expert. Also, I was able to find a unique solution for the problem I was working on.

This book is one of the best if not the best book for tribology, is concise, has the best info for design

and easy to read. Really recomend it. About the service, it was very good. They realized that they hadn't shipped it after a few days and they sent it the fastest way they could, even when I payed regular shipping. It got here even faster than I expected. Thank you

This is a great reference for a practicing engineer on the bearing design, material selection, and its proper lubrication.

Covers all major tribology areas. Great introduction to Tribology. Prepares readers for more indepth readings and work in the area. Starting from the most basic, it brings together multiple disciplines well. Slightly prefered over "Engineering Tribology" by Williams.

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