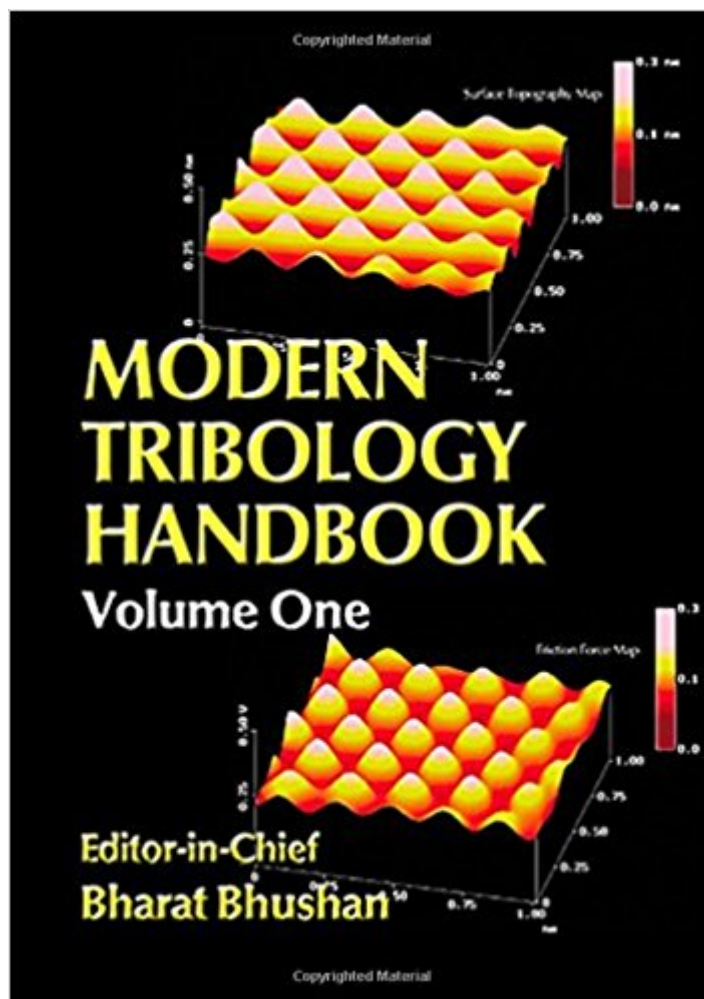


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# Modern Tribology Handbook, Two Volume Set



## Synopsis

Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale. The results have resonated throughout the field of tribology. For example, new applications require detailed understanding of the tribological process on macro- and microscales and new knowledge guides the rational design of material for these applications. A two volume set, the Modern Tribology Handbook reports on the current state-of-the-field as it reflects these developments, including all industrial applications. In the Modern Tribology Handbook you will get: A thorough review of the basic concepts of contact, friction, wear, and lubrication Comprehensive coverage of experimental studies The fascinating subject of molecular dynamics simulations An exploration of both conventional and new tribological materials Knowledge of the advantages and limitations of ceramics, diamond-like carbon and related films, and a wide range of coating composites A section devoted to industrial components and systems Conventional tribology has become well established in the past fifty years but few handbooks that exist are dated. The rapid evolution of micro- and nanotribology will cause it to take center stage for the next decade, but much of the new information has not made it into the hands that need to use it. Extensively illustrated and well-researched, the Modern Tribology Handbook gives you comprehensive information on conventional topics and, more importantly, emphasizes all industrial applications, including the fundamentals of the emerging field of micro- and nanotribology.

## Book Information

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## Customer Reviews

These comments apply to the set comprised of volume I and II of this excellent reference book. The author has done an outstanding job of compiling a large amount of material on Tribology. There is an excellent combination of both qualitative narrative and quantitative examples. My primary interest areas concerned topics relevant to reciprocating, internal combustion engine design and analysis and to that end, I found the sections on journal bearings and on bearing failure modes to be very useful. There is an entire chapter devoted to the Tribology of diesel engines, which is a good starting place for conducting investigations into this area and the end of this chapter contains many references for those seeking information that is more detailed or additional quantitative or numerical methods. Volume I, Chapter 11 contains an outstanding presentation on Hydrodynamic and Elasto-hydrodynamic Lubrication that contains a great many practical equations, including their development, for calculating the design and performance characteristics of most types of journal and thrust bearings found in modern machines. I recommend this two-book set to mechanical and marine engineers and others working with tribological systems including friction and wear and machine elements such as plain (journal) bearings. -John

Unfortunately this time buying experience with Amazon was not that good. The title said two volume set, but instead I received only the volume 1. After complaining promptly sent me another shipment. But second time as well I got only volume 1 and that too the front cover was bent and damaged. Regretted indicating they had a problem with the supplier and finally were willing to refund half the amount. However now I have to still hunt for second volume.

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