

Handbook of Lubrication and Tribology, Volume II: Theory and Design, Second Edition

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Since the publication of the best-selling first edition, the growing price and environmental cost of energy have increased the significance of tribology. **Handbook of Lubrication and Tribology, Volume II: Theory and Design, Second Edition** demonstrates how the principles of tribology can address cost savings, energy conservation, and environmental protection. This second edition provides a thorough treatment of established knowledge and practices, along with detailed references for further study.

Written by the foremost experts in the field, the book is divided into four sections. The first reviews the basic principles of tribology, wear mechanisms, and modes of lubrication. The second section covers the full range of lubricants/coolants, including mineral oil, synthetic fluids, and water-based fluids. In the third section, the contributors describe many wear- and friction-reducing materials and treatments, which are currently the fastest growing areas of tribology, with announcements of new coatings, better performance, and new vendors being made every month. The final section presents components, equipment, and designs commonly found in tribological systems. It also examines specific industrial areas and their processes.

Sponsored by the Society of Tribologists and Lubrication Engineers, this handbook incorporates up-to-date, peer-reviewed information for tackling tribological problems and improving lubricants and tribological systems. The book shows how the proper use of generally accepted tribological practices can save money, conserve energy, and protect the environment.

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About the Author

Robert W. Bruce is the principal engineer tribology at General Electric Aviation. He was president of the STLE from 2008 to 2009.

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