



Engineering Tribology, Fourth Edition

By Gwidon Stachowiak, Andrew W Batchelor

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Engineering Tribology, Fourth Edition By Gwidon Stachowiak, Andrew W Batchelor

Engineering Tribology, 4th Edition is an established introductory reference focusing on the key concepts and engineering implications of tribology. Taking an interdisciplinary view, the book brings together the relevant knowledge from different fields needed to achieve effective analysis and control of friction and wear.

Updated to cover recent advances in tribology, this new edition includes new sections on ionic and mesogenic lubricants, surface texturing, and multiscale characterization of 3D surfaces and coatings. Current trends in nanotribology are discussed, such as those relating to lubricants, coatings and composites, and geotribology is introduced.

Suitable as an introductory text, a refresher or an on-the-job reference, **Engineering Tribology, 4th Edition** is intended for final year undergraduate and postgraduate students in mechanical engineering as well as professional engineers. It is also relevant to those working in materials engineering, applied chemistry, physics and bioengineering.

- Offers a comprehensive overview of the mechanisms of wear, lubrication and friction in an accessible manner designed to aid novice engineers, non-specialists and students
- Provides a reader-friendly approach to the subject using illustrations to break down the typically complex problems associated with tribology
- Includes end-of-chapter problems to test understanding

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Editorial Review

Review

"Tribology is the science of friction, wear, and lubrication of surfaces in relative motion. This tome is intended to provide a more interdisciplinary and comprehensive approach to tribology than the numerous other books on this subject; it may also be considered more of an encyclopedia than a text." **Summing Up: Recommended--Choice Reviews Online, June 2014**

From the Back Cover

- Offers a comprehensive and accessible overview of the mechanisms of wear, lubrication and friction, with graphic illustrative methods used to break down complex problems.
- Updated with the latest advances in tribology, including new sections on ionic and mesogenic lubricants, surface texturing, and multiscale characterization of 3D surfaces.
- Includes details of a new program for calculating abrasive particle angularity, including source code.

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About the Author

Gwidon Stachowiak is a Professor at Curtin University, Perth, Western Australia, specializing in tribology. His research interests include the development of methods for description of multiscale 3D surface topographies, tribocorrosion, and optimization of 3D surface textures for hydrodynamic contacts.

Andrew W. Batchelor has been involved in tribology for 30 years and has taught tribology at universities in Australia, Singapore, Japan, Malaysia and India. He has written books on topics relating to materials degradation, biomaterials and bioengineering.

Users Review

From reader reviews:

James Jackson:

The actual book Engineering Tribology, Fourth Edition has a lot details on it. So when you read this book you can get a lot of gain. The book was written by the very famous author. This articles author makes some research previous to write this book. This book very easy to read you can get the point easily after reading this article book.

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