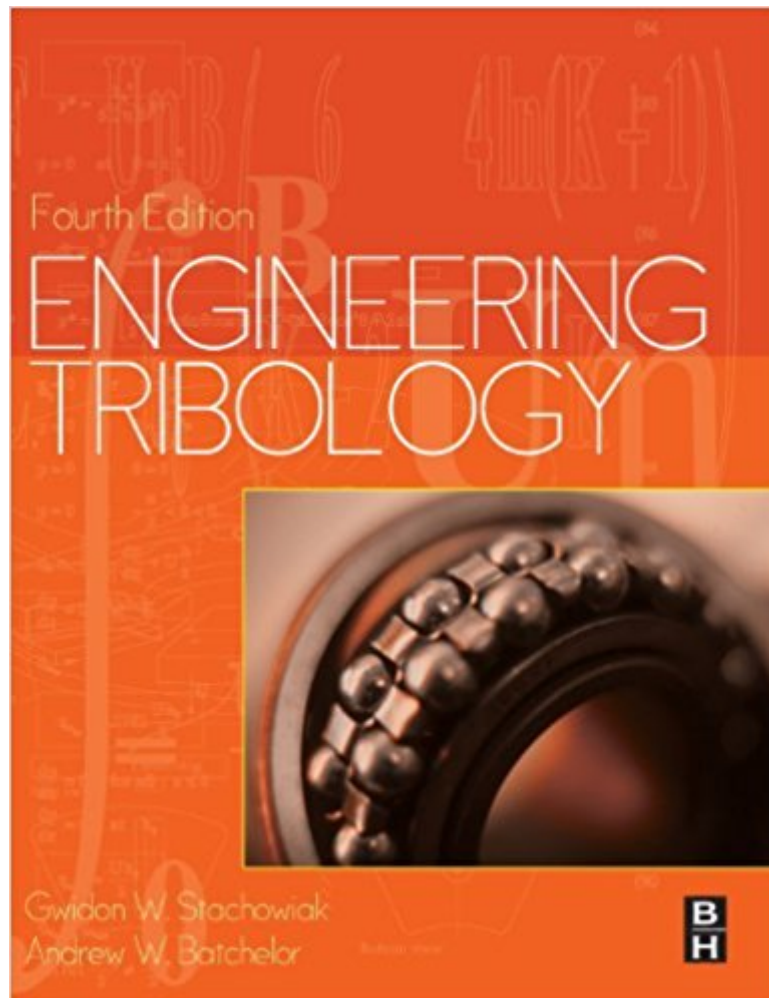




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Engineering Tribology, Fourth Edition



Synopsis

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.

Customer Reviews

"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

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. 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.

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