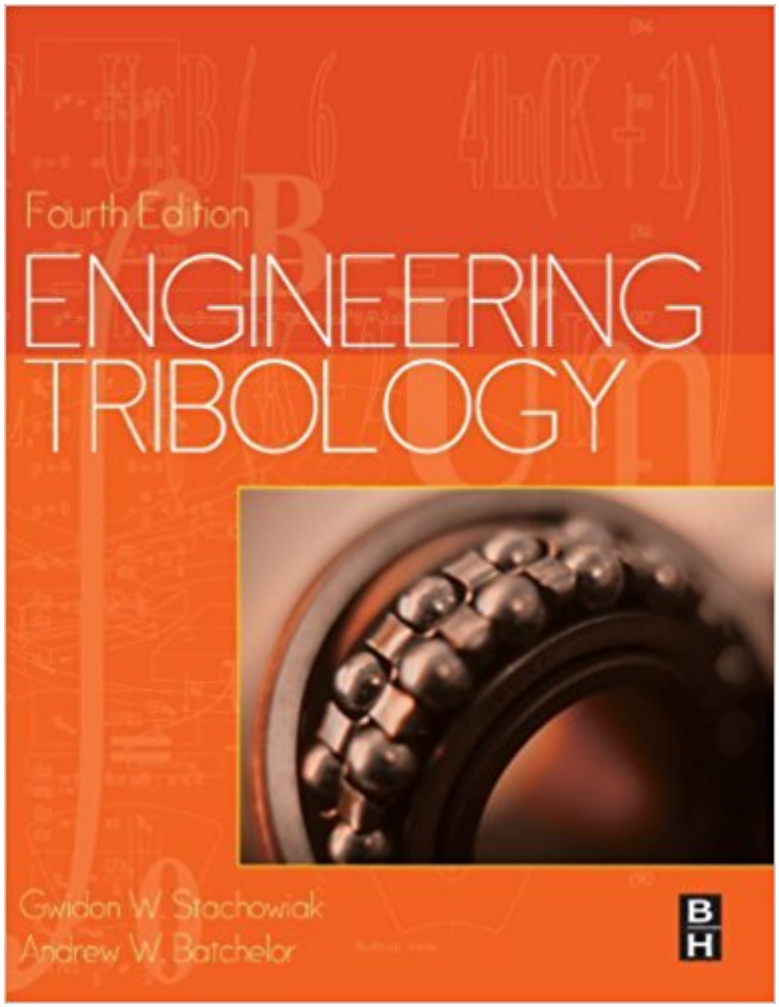
Engineering Tribology, Fourth Edition



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 studentsProvides a reader-friendly approach to the subject using illustrations to break down the typically complex problems associated with tribologyIncludes 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.

Coatings Tribology, Volume 56, Second Edition: Properties, Mechanisms, Techniques and

Applications in Surface Engineering (Tribology and Interface Engineering) Tribology of Polymeric Nanocomposites, Volume 55, Second Edition: Friction and Wear of Bulk Materials and Coatings (Tribology and Interface Engineering) Tribology of Elastomers, Volume 47 (Tribology and Interface Engineering) Engineering Tribology (Tribology Series) Tribology in Electrical Environments, Volume 49 (Tribology and Interface Engineering) Tribology of Plastic Materials: Their Characteristics and Applications to Sliding Components (Tribology Series) Engineering Tribology, Fourth Edition G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Tribology, Second Edition: Friction and Wear of Engineering Materials Engineering Tribology, Third Edition Tribology: Friction and Wear of Engineering Materials ENGINEERING TRIBOLOGY Fundamentals of Engineering Tribology with Applications Industrial Tribology: Tribosystems, Friction, Wear and Surface Engineering, Lubrication Tribology and Dynamics of Engine and Powertrain: Fundamentals, Applications and Future Trends (Woodhead Publishing in Mechanical Engineering) Tribology in Engineering Hydrodynamic Lubrication, Volume 33: Bearings and Thrust Bearings (Tribology and Interface Engineering) Exploring Engineering, Fourth Edition: An Introduction to Engineering and Design Aircraft Structures for Engineering Students, Fourth Edition (Elsevier Aerospace Engineering) Biomedical Engineering Fundamentals (The Biomedical Engineering Handbook, Fourth Edition) (Volume 1)