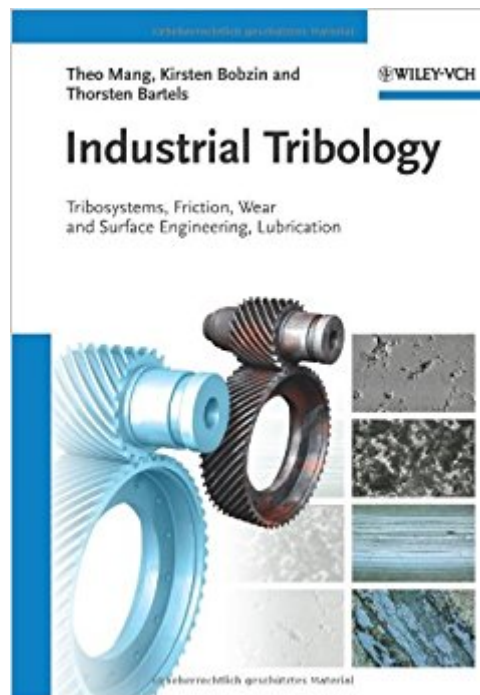


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Industrial Tribology: Tribosystems, Friction, Wear And Surface Engineering, Lubrication



Synopsis

Integrating very interesting results from the most important R & D project ever made in Germany, this book offers a basic understanding of tribological systems and the latest developments in reduction of wear and energy consumption by tribological measures. This ready reference and handbook provides an analysis of the most important tribosystems using modern test equipment in laboratories and test fields, the latest results in material selection and wear protection by special coatings and surface engineering, as well as with lubrication and lubricants. This result is a quick introduction for mechanical engineers and laboratory technicians who have to monitor and evaluate lubricants, as well as for plant maintenance personnel, engineers and chemists in the automotive and transportation industries and in all fields of mechanical manufacturing industries, researchers in the field of mechanical engineering, chemistry and material sciences.

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“Although this book is generally of interest to mechanical engineers and surface scientists; it provides all researchers, graduate students, engineers, and chemists working in the field of tribology with an easy-to-read and concise introduction to this fast-growing discipline.” (IEEE Electrical Insulation Magazine, 1 May 2013)

Tribology is the science of friction, wear and lubrication. It is a fast growing discipline generating a lot of interest at universities, industrial and other research centers, and has produced promising new

results over the past five years. Due to its interdisciplinary nature, it requires efficient cooperation between mechanical engineers, materials scientists, chemists and chemical engineers, and even specialists in toxicology and environmental protection. Integrating very interesting results from the most important R&D project ever made in Germany, this ready reference and handbook offers a basic understanding of tribological systems and the latest developments in reduction of wear and energy consumption by tribological measures. The result is an analysis of the most important tribosystems using modern test equipment in laboratories and test fields, the latest results in material selection and wear protection by special coatings and surface engineering, as well as with lubrication and lubricants.

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