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This introductory yet comprehensive book presents the fundamental concepts on the analysis and design of tribological systems. It is a unique blend of scientific principles, mathematical formulations and engineering practice. The text discusses properties and measurements of engineering surfaces, surface contact geometry and contact stresses. Besides, it deals with adhesion, friction, wear, lubrication and related interfacial phenomena. It also highlights recent developments like

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nanotribology and fractal analysis with great clarity. The book is intended as a text for senior under-graduate and postgraduate students of mechanical engineering, production/industrial engineering, metallurgy and material science. It can also serve as a reference for practising engineers and designers.

This book describes available tribology technologies and introduces a comprehensive overview of tribology. General, up-to-date knowledge on how tribology is approached in various related areas of research, both experimental and computational is provided.

The success of any product sold to consumers is based, largely, on the longevity of the product. This concept can be extended by various methods of improvement including optimizing the initial creation structures which can lead to a more desired product and extend the product's time on the market. Design and Optimization of Mechanical Engineering Products is an essential research source that explores the structure and processes used in creating goods and the methods by which these goods are improved in order to continue competitiveness in the consumer market. Featuring coverage on a broad range of topics including modeling and simulation, new product development, and multi-criteria decision making, this publication is targeted toward students,

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practitioners, researchers, engineers, and academicians.

"Presents explanation on the theories and applications of hydrodynamic thrust bearing, gas (air) lubricated bearing and elasto-hydrodynamic lubrication"--

Tribology is usually defined as "the science and technology of interacting surfaces in relative motion". It includes the research and application of principles of friction, wear, lubrication and design. Green tribology involves tribological aspects of environmental and biological impacts. This multidisciplinary field of science and technology is very important for the development of new products in mechanics, materials, chemistry, life sciences and by extension for all modern industry. The current volume aims to provide recent information on progress in green tribology. Chapter 1 provides information on tribological materials (an eco-sustainable perspective), while chapter 2 is dedicated to preparation and tribology performance of bio-based ceramic particles from rice waste and chapter 3 describes tribological behavior and tribochemistry of Ti_3SiC_2 in water and alcohols. Chapter 4 contains information on modelling and analysis of the oil-film pressure of a hydrodynamic journal bearing lubricated by nano based bio-lubricants using a D-optimal design. Finally, chapter 5 is

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dedicated to wear performance of oil palm seed fibre reinforced polyester composite aged in brake fluid solutions. The current volume can be used as a research book for final undergraduate in engineering courses or as a topic on green tribology at postgraduate level. This book can also serve as useful reference for academics, researchers, mechanical, materials, environmental and manufacturing engineers, professionals green tribology and related industries.

Production, new materials development, and mechanics are the central subjects of modern industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures, automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in

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related industries; scientists; and students.

An ideal textbook for a first tribology course and a reference for designers and researchers, Engineering Tribology gives the reader interdisciplinary understanding of tribology including materials constraints. Real design problems and solutions, such as those for journal and rolling element bearings, cams and followers, and heavily loaded gear teeth, elucidate concepts and motivate understanding. The hallmark of this work is the integration of qualitative and quantitative material from a wide variety of disciplines including physics, materials science, surface and lubricant chemistry, with traditional engineering approaches. Reviewers have praised the coverage of: both elastic and plastic stresses at surfaces in contact; the mechanisms of friction, wear and surface distress, and wear; thick pressurized fluid films in both hydrostatic and hydrodynamic bearings; elasto-hydrodynamic lubrication; boundary lubrication mechanisms; dry and marginally lubricated bearing design; the design of rolling contacts and bearings.

This book presents the research advances in the science of measurement, giving special focus to the field of machining and tribology. Topics such as dimensional metrology, precision measurements, industrial metrology, accuracy and precision in measurement are covered. Also theoretical

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aspects such as modelling and simulation are highlighted.

Surface engineering includes many facets of materials science that help regulate the function, quality, and safety of products such as automotive, textile, and electronic materials. New technologies are developing to help enhance the surface performance. Surface Engineering Techniques and Applications: Research Advancements provides recent developments in surface engineering techniques and applications. It details scientific and technological results while also giving insight to current research, economic impact, and environmental concerns so that academics, practitioners, and professionals in the field, as well as students studying these areas, can deepen their understanding of new surface processes.

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