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Tribology for Scientists and Engineers

 Springer

Tribology For Scientists And Engineers From Basics To Advanced Concepts

**Kenneth Norman Strafford,Chinnia
Subramanian**



Tribology For Scientists And Engineers From Basics To Advanced Concepts:

Tribology for Scientists and Engineers Pradeep L. Menezes, Michael Nosonovsky, Sudeep P. Ingole, Satish V. Kailas, Michael R. Lovell, 2013-12-04 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. **Principles and Applications of Tribology** Habeeb Adewale Ajimotokan, 2024-04-01 This book presents a comprehensive exploration of tribology concepts and their real world implications delving into introductory principles as well as advanced topics such as friction lubrication and wear. Tailored for engineers across diverse disciplines it serves as a fundamental resource for both undergraduate engineering courses and postgraduate studies focused on tribology. Moreover it caters to the needs of mechanical materials and biomechanics researchers engineers academics and industry professionals alike. Noteworthy features include unique engineering perspectives practical discussions on lubrication principles for minimizing friction and wear and guidance on selecting optimal lubricants and materials for various tribological applications. *Advanced Polymeric Materials* Didier Rouxel, Sabu Thomas, Nandakumar & Sajith Kalarikkal, 2022-09-01 Recent advances in polymer research has led to the generation of high quality materials for various applications in day to day life. The synthesis of new functional monomers has shown strong potential in generating novel polymer materials with improved properties. *Advanced Polymeric Materials* includes fundamentals and numerous examples of polymer blend preparation and characterizations. Developments in blends polymer nanocomposites and its various characterization techniques are highlighted in the book. **Performance Characterization of Lubricants** Abhishek Kumar, Avinash Kumar, Ashwani Kumar, 2024-11-14 The text discusses the fundamentals of lubrication science and technology linking the science concepts to engineering practices. It further explores the performance characterization of lubrication systems by utilizing sophisticated experiments and tests and motivates the readers to develop their conclusions and reach solutions based on modern tools and techniques. This book Presents the principles of surface and lubricant chemistry and its implementation to devise engineering solutions for various application based systems. Discusses viscosity index improvers tribology of green lubricants and biolubricants from non edible oils. Highlights 2D nanomaterials lubricants biogreases hydrogel and lubricants for extreme temperature and pressure conditions. Explains lubrication for electrical biomedical automobile marine turbine and aerospace applications. Covers design considerations formulations and compositions of lubricants for high temperature applications in diverse areas. Explores the simulation computational and empirical models to characterize quantify and mitigate the adverse effects of friction. It is primarily written for senior undergraduate and graduate students and academic researchers in the fields of mechanical engineering production engineering industrial engineering aerospace engineering and manufacturing engineering. *Metal Matrix Composites* Suneev Anil Bansal, Virat Khanna, Pallav Gupta, 2022-08-23 This book gives in depth coverage of Metal Matrix Composites

MMCs focusing on micro and nano reinforcements including hybrid structures and applications like tribological and corrosion behavior heat exchanger and so forth Each chapter covers different perspectives of micro nano reinforcement and related applications Major topics covers include new age reinforcement fracture and corrosion behavior tribological elastic elastoplastic and thermal behavior of MMCs Features Presents detailed analysis on new age reinforcements in Metal Matrix Composites MMCs Discusses application based analysis of MMCs Covers details about convergence of hybrid composite from conventional alloys Includes mechanisms and effects of various reinforcement on pertinent properties Reviews properties and applications of various MMCs This book aims at graduate students researchers and professionals in micro nano science technology mechanical engineering industrial engineering metallurgy and composites **GeoVadis** Ashish Juneja, Anil Joseph, Dasaka S. Murty, 2025-09-16 This book contains a prolific compilation of research on geotechnical engineering presented at the First Geotech Asia International Conference GAIC 2025 The papers reflect dynamic engagement of researchers engineers and professionals from all over Asia to offer insights into ongoing developments and applied problem solving This publication brings together contributions across 19 technical themes including cold region geotechnics deep excavations earthquake engineering foundation systems and underground construction It also delves into artificial intelligence and machine learning applications environmental and transportation geotechnics site characterisation slope stability embankments and dams and ground improvement techniques It is intended for academics practising engineers consultants contractors industry professionals government authorities and students involved in geotechnical research education and design and implementation The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

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