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Handbook of Lubrication and Tribology, Volume II: Theory ...
showed that yield at the coating/substrate interface on the substrate side is the most common case under a wide range of contact conditions. A new parameter for prediction of the onset of spalling of a ceramic coating under sliding contact was Tribology International Volume 31 Numbers 1–3 1998 109 developed by Diao and Kato11 and equations ...

Coatings tribology—contact mechanisms and surface design
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Engineering Tribology Second Edition
The indentation load-displacement behavior of three material systems tested with a Berkovich indenter has been examined. The materials studied were the substrate materials—silicon and polycarbonate, and the coating/substrate systems—diamond-like carbon (DLC) coating on silicon, and DLC coating on polycarbonate.

An Investigation of Thin-Film Coating/Substrate Systems by ...
1 5/27/2020 . PUBLICATIONS and PATENTS . Prof. Bharat Bhushan . Ohio Eminent Scholar and The Howard D. Winbigler Professor . Department of Mechanical and Aerospace Engineering, The Ohio State University, Columbus, Ohio

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Green tribology can be viewed in the broader context of two other ‘green’ areas: green engineering and green chemistry. The US Environmental Protection Agency defines green engineering as ‘the design, commercialization and use of processes and products that are technically and economically feasible while minimizing (i) generation of pollution at the source and (ii) risk to human health ...

Previous ed.: Amsterdam: Elsevier, 1994.

Since the publication of the best-selling first edition, the growing price and environmental cost of energy have increased the significance of tribology. Handbook of Lubrication and Tribology, Volume II: Theory and Design, Second Edition demonstrates how the principles of tribology can address cost savings, energy conservation, and environmental pr

Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale. The results have resonated throughout the field of tribology. For example, new applications require detailed understanding of the tribological process on macro- and microscales and new knowledge guides the rational

A fully updated version of the popular Introduction to Tribology, the second edition of this leading tribology text introduces the major developments in the understanding and interpretation of friction, wear and lubrication. Considerations of friction and wear have been fully revised to include recent analysis and data work, and friction mechanisms have been reappraised in light of current developments. In this edition, the breakthroughs in tribology at the nano- and micro- level as well as recent developments in nanotechnology and magnetic storage technologies are introduced. A new chapter on the emerging field of green tribology and biomimetics is included. Introduces the topic of tribology from a mechanical engineering, mechanics and materials science points of view Newly updated chapter covers both the underlying theory and the current applications of tribology to industry Updated write-up on nanotribology and nanotechnology and introduction of a new chapter on green tribology and biomimetics

As wear is a surface or near surface phenomenon it has long been realised that the wear resistance of a component can be improved by providing a surface of different composition from the bulk material. Although this book concentrates on surface coatings, the distinction between surface coatings and the process of modifying the surface by changing its composition is not always clear, so some useful surface modification techniques are also considered. Surface coatings for protection against wear, consists of twelve chapters written by different authors, experts in their field. After a brief introductory chapter wear phenomena and the properties required from a coating are addressed. Chapter three covers coating characterisation and property evaluation relevant to wear resistance with an emphasis on mechanical testing of coatings. The next chapter provides an introduction to the various methods available to deposit wear resistant coatings. The following six chapters describe in detail wear resistant coatings produced by various deposition routes. Emphasis is placed on the microstructure property relationship in these coatings. Chapter eleven addresses coatings and hardfacings, produced from welding processes, specifically modern developments such as friction surfacing and pulsed electrode surfacing techniques. The final chapter is dedicated to future trends in both coating materials and coating processes. Surface coatings for protection against wear is essential for anyone involved in selecting coatings and processes and will be an invaluable reference resource for all engineers and students concerned with the latest developments in coatings technology. Essential for anyone involved in selecting coatings and processes, engineers and students Written by an

international team of experts in the field

Lasers can alter the surface composition and properties of materials in a highly controllable way, which makes them efficient and cost-effective tools for surface engineering. This book provides an overview of the different techniques, the laser-material interactions and the advantages and disadvantages for different applications. Part one looks at laser heat treatment, part two covers laser additive manufacturing such as laser-enhanced electroplating, and part three discusses laser micromachining, structuring and surface modification. Chemical and biological applications of laser surface engineering are explored in part four, including ways to improve the surface corrosion properties of metals. Provides an overview of thermal surface treatments using lasers, including the treatment of steels, light metal alloys, polycrystalline silicon and technical ceramics Addresses the development of new metallic materials, innovations in laser cladding and direct metal deposition, and the fabrication of tuneable micro- and nano-scale surface structures Chapters also cover laser structuring, surface modification, and the chemical and biological applications of laser surface engineering

Nanocomposite coatings have various properties that can be utilized for corrosion protection and tribological improvements. Synthesis of the nanocomposite coatings using an electrodeposition method allows unique control of the experimental parameters. By fine tuning the experimental parameters, various compositions and properties can be obtained for the nanocomposite coatings. This book covers some of the electrochemical methods used for nanocomposite coating deposition as well as discusses in detail examples of several nanocomposite coating. The corrosion and tribological performance of the nanocomposite coatings are also covered and some nanocomposite coatings are discussed for specific technological areas, such as fuel cells and microelectronics.

The renowned reference work is a practical guide to the selection and design of the components of machines and to their lubrication. It has been completely revised for this second edition by leading experts in the area.

The manufacture and use of almost every consumer and industrial product rely on application of advanced knowledge in surface science and tribology. These two disciplines are of critical importance in major economic sectors, such as mining, agriculture, manufacturing (including metals, plastics, wood, computers, MEMS, NEMS, appliances), construction

This book presents an overview of the general field of biomimetics and biologically inspired, hierarchically structured surfaces. It deals with various examples of biomimetics, which include surfaces with roughness-induced super-phobicity/philicity, self-cleaning, antifouling, low drag, low/high/reversible adhesion, drag reduction in fluid flow, reversible adhesion, surfaces with high hardness and mechanical toughness, vivid colors produced structurally without color pigments, self-healing, water harvesting and purification, and insect locomotion and stinging. The focus in the book is on the Lotus Effect, Salvinia Effect, Rose Petal Effect, Superoleophobic/philic Surfaces, Shark Skin and Skimmer Bird Effect, Rice Leaf and Butterfly Wing Effect, Gecko Adhesion, Insects Locomotion and Stinging, Self-healing Materials, Nacre, Structural Coloration, and Nanofabrication. This is the first book of this kind on bioinspired surfaces, and the third edition represents a significant expansion from the previous two editions.