

Christophe Donnet
Ali Erdemir
Editors

Foreword by John Robertson

Tribology of Diamond-Like Carbon Films

Fundamentals and Applications

 Springer

Tribology Of Diamond Like Carbon Films Fundamentals And Applications

Gwidon W. Stachowiak



Tribology Of Diamond Like Carbon Films Fundamentals And Applications:

Tribology of Diamond-like Carbon Films Christophe Donnet, Ali Erdemir, 2007-12-06 This book highlights some of the most important structural chemical mechanical and tribological characteristics of DLC films It is particularly dedicated to the fundamental tribological issues that impact the performance and durability of these coatings The book provides reliable and up to date information on available industrial DLC coatings and includes clear definitions and descriptions of various DLC films and their properties

Aerospace Materials Handbook Sam Zhang, Dongliang Zhao, 2016-04-19 Whether an airplane or a space shuttle a flying machine requires advanced materials to provide a strong lightweight body and a powerful engine that functions at high temperature The Aerospace Materials Handbook examines these materials covering traditional superalloys as well as more recently developed light alloys Capturing state of the art developments in materials research for aeronautical and aerospace applications this book provides a timely reference for both newcomers and veteran researchers in the field The chapters address developments in bulk materials coatings traditional materials and new materials Beginning with an overview of superalloys including nickel nickel iron and cobalt based superalloys the text covers machining laser cladding and alloying corrosion performance high temperature oxidation thermal spraying and nanostructured coatings It also includes four categories of composites used in aerospace metal matrix polymer carbon nanotube reinforced polymer and self healing composites The text describes preparation processing and fatigue of lightweight magnesium alloys as well as an exciting new class of materials aerogels This book brings readers to the cutting edge of research in materials for aerospace and aeronautics It provides an entry point into this field and presents details to stimulate future research This unique up to date resource offers knowledge to enable practitioners to develop faster more efficient and more reliable air and spacecraft

Carbon-Based Nanofillers and Their Rubber Nanocomposites Srinivasarao Yaragalla, Raghvendra Kumar Mishra, Sabu Thomas, Nandakumar Kalarikkal, Hanna J. Maria, 2018-10-30 Carbon Based Nanofillers and Their Rubber Nanocomposites Carbon Nano Objects presents their synthetic routes characterization and structural properties and the effect of nano fillers on rubber nanocomposites The synthesis and characterization of all carbon based fillers is discussed along with their morphological thermal mechanical dynamic mechanical and rheological properties In addition the book covers the theory modeling and simulation aspects of these nanocomposites along with various applications Users will find this a unique contribution to the field of rubber science and technology that is ideal for graduates post graduates engineers research scholars polymer engineers polymer technologists and those in biomedical fields Reviews rubber nanocomposites including carbon associated nanomaterials nanocarbon black graphite graphene carbon nanotubes fullerenes and diamond Presents the synthesis and characterization of carbon based nanocomposites Relates the structure of these nanocomposites to their function as rubber additives and their many applications Discusses suitable analytical techniques for the characterization of carbon based nanocomposites

Self-Lubricating Composites Pradeep L. Menezes, Pradeep K. Rohatgi, Emad

Omran,2022-01-03 In most tribological applications liquid or grease based lubricants are used to facilitate the relative motion of solid bodies to minimize friction and wear between interacting surfaces The challenges for liquid lubricants arise in extreme environmental conditions such as very high or low temperatures vacuum radiation and extreme contact pressure At these conditions solid lubricants may be the alternative choice which can help to decrease friction and wear without incorporating liquid lubricants Challenges with solid lubricants are to maintain a continuous supply of solid lubricants on the contact surfaces to act as lubricous layer between two sliding surfaces Such a continuous supply is more easily maintained in the case of liquid lubricants when compared to solid lubricants The most innovative development to ensure a continuous supply of solid lubricant to the contact surface during sliding is to introduce solid lubricant as reinforcement into the matrix of one of the sliding components Composite materials are engineered or naturally occurring materials which contain two or more distinct constituents with significantly different chemical physical and mechanical properties Composites consist of reinforcement and matrix metal polymer and ceramics Among various reinforcements recent emerging material solid lubricant is found to have many favorable attributes such as good lubrication property Self lubrication is the ability of a material to provide lubrication to the contact surface to decrease friction and wear rate in the absence of an external lubricant by transferring embedded solid lubricants in the composite to the interface Self lubricating composites SLCs are an important category of engineering materials that are increasingly replacing a number of conventional materials in the automotive aerospace and marine industries due to superior tribological properties In SLCs solid lubricant materials including carbonous materials molybdenum disulfide MoS₂ and hexagonal boron nitride h BN are embedded into the matrices as reinforcements to manufacture a novel material with attractive self lubricating properties Several studies have been investigated the tribological properties of self lubricating materials This book fills that gap to have a reference book about self lubricating materials and their properties to help scientists engineers and industries This book discusses mechanisms of self lubricating materials self lubricating properties and the applications for industries The chapters will be written by authoritative expertise in the field Additionally this book will demonstrate fundamental study and most advanced innovations in self lubricating materials as regards to friction and wear The chapters also include tribological properties of composites and coatings and some practical applications of self lubricating materials **Comprehensive Materials**

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Surface Engineering 2001 - Fundamentals and Applications: Volume 697 Wen Jin Meng,2002-08-27 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Encyclopedia of Materials K. H. J. Buschow,2001 Accompanying CD ROM contains The Encyclopedia of Materials Science and Technology on a web access disc **Diamond-Like Carbon Coatings** Peerawatt Nunthavarawong, Sanjay

Mavinkere Rangappa, Suchart Siengchin, Kuniaki Dohda, 2022-08-08 Diamond like carbons DLCs display a number of attractive properties that make them versatile coating materials for a variety of applications including extremely high hardness values very low friction properties very low gas permeability good biocompatibility and very high electrical resistivity among others Further research into this material is required to produce hydrogen free DLC films and to synthesize it together with other materials thereby obtaining better film properties Diamond Like Carbon Coatings Technologies and Applications examines emerging manufacturing technologies for DLCs with the aim of improving their properties for use in practical applications Discusses DLC coatings used in mechanical manufacturing and medical applications Details recent developments in the novel synthesis of DLC films Covers advances in understanding of chemical structural physical mechanical and tribological properties for modern material processing Highlights methods to yield longer service life Considers prospects for future applications of emerging DLC technologies This work is aimed at materials science and engineering researchers advanced students and industry professionals Journal of Tribology ,2002 **Wear** Gwidon W.

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Nanotribology II Shefford P. Baker,2001 Applications of Diamond-like Carbon Coatings Abdul Wasy Zia,2025-03-18 An

incisive guide to diamond like carbon DLC coatings and their contemporary applications In Applications of Diamond like Carbon Coatings distinguished researcher Dr Abdul Wasy Zia delivers an insightful and up to date discussion of the latest advancements in new and non conventional applications of diamond like carbon DLC coatings The editor explains the transformation of typical topics into advanced applications of DLC including tribology for future transportation solutions green lubrication invasive implants MEMS optical devices and more The book also details advanced and contemporary trends

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Diamond-like-carbon Coatings for Orthopedic Applications Tianzong Xu,1997 **Wear of Materials** American Society of Mechanical Engineers,1997 Chemical Abstracts ,1994-03-07 **Metals Abstracts** ,1998 **The Atomic-scale Origins of Friction** Rachel J. Cannara,2006

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