

TRIBOLOGY SERIES, 7

MICROSCOPIC ASPECTS OF ADHESION AND LUBRICATION

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(EDITOR)

ELSEVIER

Microscopic Aspects Of Adhesion And Lubrication

Tribology Series Volume 7

K.-H. Zum Gahr



Microscopic Aspects Of Adhesion And Lubrication Tribology Series Volume 7:

Materials for Tribology William Glaeser, 1992-05-07 This handbook provides an extensive reference source on the materials used in tribological applications. Materials used in tribological applications are for the most part common materials used for general engineering applications. Many conventional engineering materials have been adapted to tribological uses and examples of these are given throughout the text. Literature that so far has been scattered and difficult to retrieve is now presented for the first time in this comprehensive treatise. The author has used his expertise in selecting materials for a wide variety of friction and wear applications to develop this data base on materials for tribology. In addition, information has been selected from the literature on the behaviour of these materials in bearings, seals, gears, brakes, clutches, wire rope, valves, cams, and wear surfaces and is included in the descriptive text. The materials have been grouped in families relating to their composition. A short table is provided at the beginning of each chapter listing the ranges of selected properties for the materials under discussion. In addition, there are short summaries of the tribological applications. This class of materials is used for. On the first page of each chapter, one can find a guide for the selection of materials. Sufficient references to the literature are given to enable the reader to follow up in more detail the various topics discussed. **Mechanics and**

Chemistry in Lubrication A. Dorinson, K.C. Ludema, 1985-08-01 Although it is widely recognized that friction, wear, and lubrication are linked together in a single interdisciplinary complex of scientific learning and technological practice, fragmented and specialized approaches still predominate. In this book, the authors examine lubrication from an interdisciplinary viewpoint. They demonstrate that once the treatment of lubrication is released from the confines of the fluid film concept, this interdisciplinary approach comes into full play. Tribological behavior in relation to lubrication is then examined from two major points of view: one is mechanical, not only with respect to the properties and behavior of the lubricant but also of the surfaces being lubricated. The other is chemical and encompasses the chemistry of the lubricant, the surfaces, and the ambient surroundings. It is in the emphasis on the interaction of the basic mechanical and chemical processes in lubrication that this book differs from conventional treatments. Tribology of Plastic Materials Y.

Yamaguchi, 1990-06-18 This book presents a thorough overview on workable theories and reliable experimental data on the use of plastic materials for sliding parts. Divided into four parts, Chapters 1 and 2 deal with current theories of friction and wear and include discussion of various hypotheses based upon experimental studies. Chapter 3 details experiments designed to improve tribological performance via polymer blending and composite production, whilst Chapter 4 explains how the data obtained from these experiments can be applied to sliding machine parts. The work will prove useful in the design of plastic materials and components and will also provide a stepping stone toward future innovations in this field. Microstructure and Wear of Materials K.-H. Zum Gahr, 1987-03-01 This new book will be useful not only to practising engineers and scientists but also to advanced students interested in wear. It reviews our current understanding of the influence of

microstructural elements and physical properties of materials metals polymers ceramics and composites on wear The introductory chapters describe the relation between microstructure and mechanical properties of materials surfaces in contact and the classification of wear processes The following chapters are concerned with wear modes of great practical interest such as grooving wear sliding wear rolling sliding wear and erosive wear Our present understanding of abrasion adhesion surface fatigue and tribochemical reactions as the relevant wear mechanisms is discussed and new wear models are presented In addition to extensive experimental results sketches have been widely used for clarifying the physical events

Hydrostatic Lubrication R. Bassani, B. Piccigallo, 1992-08-20 Hydrostatic lubrication is characterized by the complete separation of the conjugated surfaces of a kinematic pair by means of a film of fluid which is pressurized by an external piece of equipment Its distinguishing features are lack of wear low friction high load capacity a high degree of stiffness and the ability to damp vibrations This book reviews the study of externally pressurized lubrication both from the theoretical and the technical point of view thereby serving the needs of both researchers as well as students and technical designers In this connection design suggestions for the most common types of hydrostatic bearings have been included as well as a number of examples A comprehensive bibliography is included with each chapter providing up to date references for more in depth coverage

Engine Tribology C.M. Taylor, 1993-07-23 Customer expectations and international competition are obliging car and commercial vehicle manufacturers to produce more efficient and cleaner products in shorter product cycle times The consideration of Engine Tribology has a leading role to play in helping to achieve these goals Specific areas of interdisciplinary interest include design influences on fuel economy and emissions new materials ceramics steels coatings lubricants additives low viscosity lubricants and low heat rejection adiabatic engines This volume gives a detailed and current review on some basic features of tribology particularly associated with internal combustion engines such as lubrication analysis relevant to plain bearings Hertzian contact theory and elastohydrodynamic lubrication associated with cams and followers and friction and wear in a general context Several chapters examine engine bearings valve trains cams and followers and piston assemblies For each machine element a background introduction is followed by design interpretations and a consideration of future developments The important topic of materials solids and lubricants is focused upon in the concluding chapters The work will be of interest to engineers and researchers in the automobile automotive products petroleum and associated industries

Friction and Wear of Polymer Composites Klaus Friedrich, 2012-12-02 Providing a useful summary of current knowledge on the friction and wear properties of composite materials this book fills the gap between publications on fundamental principles of tribology and those on the friction and wear behavior of metals and polymers Detailed coverage is given of the fundamental aspects of tribology in general and polymer composites in particular the effects of the microstructure of composites on friction and wear behavior under different external loading conditions and the problem of the control of friction and wear behavior in practical situations Although emphasis is on

polymer composites associated with bearing type applications part of the book is also devoted to the friction and wear of metal based composites and rubber compounds The data are represented in the form of 277 figures diagrams and photographs and 68 tables The author index covers more than 670 references and the subject index more than 1 000 keywords The book will be of particular interest to those involved in research on some aspects of polymer composites tribology material scientists physical chemists mechanical engineers those wishing to learn more methods for solving practical friction or wear problems designers engineers and technologists in industries dealing with selection reprocessing and application of polymer engineering materials and teachers and students at universities

Rheology and Elastohydrodynamic Lubrication B.O. Jacobson, 1991-07-24 This book gives a thorough overview on recent developments in lubricant rheology elastohydrodynamic lubrication and the effects of surface roughness and particulate contamination in the lubricant on the overall behaviour of a heavily loaded lubricated contact One of the aims of the book is to make clear to the reader that a Newtonian model for the lubricant behaviour does not have enough degrees of freedom to be able to describe the friction traction behaviour of heavily loaded lubricated contacts or the oil film build up and collapse under surface asperities for rough surfaces The book contains quite a lot of experimental data of lubricants at high pressures both solidification pressures compressibilities and shear strength increase coefficients which make it possible to estimate the friction and power loss in heavily loaded lubricated contacts for different pressures temperatures sliding speeds and lubricant types This is the first time that data of this type has been included in a textbook and it is hoped that the questions highlighted will serve to initiate and guide future research in this field

Industrial Tribology M.H. Jones, D. Scott, 1983-03-01 Industrial Tribology

Encyclopedia of Tribology C. Kajdas, E. Wilusz, S. Harvey, 1990-10-09 The multidisciplinary nature of tribology the conflicting theories and approaches to it found in the literature plus the fact that definitions of the same phenomenon often differ widely prompted the authors to compile this work The aim of this encyclopedia is to provide information on specific tribological terms The entire field of tribology encompassing lubrication friction and wear i e the science and technology of interacting surfaces in relative motion is covered An extensive description of the chemical and biological aspects of tribology is given including a wide range of current references and authors The reader is also referred to relevant literature for most of the terms listed The information presented has been made as up to date as possible taking into account both the theoretical and practical nature of the subject The encyclopedia will be an indispensable reference source in the work of engineers chemists physicists metallurgists materials and surface scientists biotechnologists as well as research workers in these fields

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