

**Course: MEC421::INDUSTRIAL TRIBOLOGY****Time Allowed: 1.5 hr.****Max. Marks: 50**

1. This paper contains 5 questions divided in three parts.
2. Part A is compulsory.
3. From Part B & C taken together (i.e. question 3 to 5) attempt any 2 questions out of 3.
4. Attempt all parts of the question chosen.
5. The marks assigned to each question are shown at the end of each question.
6. Answer all questions in serial order.

**Part A**

- Q1.a) Explain peak to valley height roughness and ten point height roughness. [2 Marks]
- b) What are the operational variables in wear regime map? [2 Marks]
- c) What are the fundamental aspects of Tribology? [2 Marks]
- d) What is fluid friction? [2 Marks]
- e) What is the difference between adhesive and abrasive wear? [2 Marks]
- Q2.a) Explain the significance of wear coefficient? [5 Marks]
- b) Explain tribology in terms of physics and write application of tribology in industries? [5 Marks]

**Part B**

- Q3.) Explain the principle, working, application and 2 limitations of Stylus type profilometer? [15 Marks]
- Q4.) Explain laws of friction briefly? [15 Marks]

**Part C**

Q5.) A hard steel surf consisting of array of conical asperity of average angle  $\alpha=30^\circ$  slides on a shaft lead surf ( $H=75 \text{ Mpa}$ ) under load of 10N. Calculate

- 1) Volume of lead displaced in unit sliding distance.
- 2) Wear coefficient of Pb if  $V=10^{-6} \text{ m}^3$  for 1km sliding. [15 Marks]

# Industrial Tribology Question Paper

**Ian M. Hutchings**



## **Industrial Tribology Question Paper:**

*Vehicle Tribology* M. Godet, D. Dowson, C.M. Taylor, 1991-07-03 Vehicle Tribology was chosen as the topic for the 17th Leeds Lyon Symposium as it was decided to be a timely opportunity to bring together experts of many disciplines connected with problems of emissions particulates and energy efficiency associated with the automobile engine The volume contains 55 papers divided into eighteen sessions

**23rd International Colloquium Tribology** Arshia Fatemi, Andreas Pauschitz, Ksenija Topolovec-Miklozic, 2022-02-14 The conference provides an international exchange forum for the industry and the academia Leading university researchers present their latest findings and representatives of the industry inspire scientists to develop new solutions

*Tribology of Reciprocating Engines* D. Dowson, C. M. Taylor, M. Godet, 2017-05-04 Tribology of Reciprocating Engines documents the proceedings of the 9th Leeds Lyon Symposium on Tribology held at the University of Leeds England on September 7 10 1982 This book emphasizes advances in the working principals of the tribological components that operate with relative motion The topics discussed include the dynamic analysis of engine bearing systems measurement of oil film thickness in diesel motor main bearings and temperature variations in crankshaft bearings The theoretical and experimental study of ring liner friction tribology in the cylinders of reciprocating compressors and lubricant properties in the diesel engine piston ring zone are also described This text likewise considers the metallurgy of scoring and scuffing failure impact of oil contamination on wear and energy losses and role of tappet surface morphology and metallurgy in cam tappet life This compilation is a good reference for tribologists lubrication engineers and specialists researching on reciprocating engines

**NBS Special Publication**, 1976 **Engineering Tribology** Gwidon Stachowiak, Andrew W Batchelor, 2013-09-16 Engineering Tribology Fourth Edition is an established introductory reference focusing on the key concepts and engineering implications of tribology Taking an interdisciplinary view the book brings together the relevant knowledge from different fields needed to achieve effective analysis and control of friction and wear Updated to cover recent advances in tribology this new edition includes new sections on ionic and mesogenic lubricants surface texturing and multiscale characterization of 3D surfaces and coatings Current trends in nanotribology are discussed such as those relating to lubricants coatings and composites and geotribology is introduced Suitable as an introductory text a refresher or an on the job reference Engineering Tribology 4th Edition is intended for final year undergraduate and postgraduate students in mechanical engineering as well as professional engineers It is also relevant to those working in materials engineering applied chemistry physics and bioengineering Offers a comprehensive overview of the mechanisms of wear lubrication and friction in an accessible manner designed to aid novice engineers non specialists and students Provides a reader friendly approach to the subject using illustrations to break down the typically complex problems associated with tribology Includes end of chapter problems to test understanding

**Thin Films in Tribology** G. Dalmaz, P.R.N. Childs, D. Dowson, M. Godet, C.M. Taylor, 1993-09-06 The tribological properties of relatively moving surfaces are greatly influenced by

thin surface films which are of considerable importance in the design of machine components From Victorian days when working lubricant films were calculated in tens of micrometres to today when molecular dynamics simulations and even experiments are beginning to look at nanometre single molecule thick films the study of surfaces which is the tribologists challenge has moved to finer and finer scales The 66 papers in this volume provide reviews across the tribological field with thin films as their theme giving a comprehensive and concise description on topics ranging from coatings and surface modification to bio tribology The articles provide the reader with an outline of their most effective application and potential uses in new technologies The volume will be of interest not only to research workers and design engineers in the fields of new machine developments and lubrication but also to engineers and students specialising in tribology Engineering Tribology Mr. Rohit Manglik,2024-05-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Engineering Tribology** G.W. Stachowiak,A.W. Batchelor,1993-06-30 The interdisciplinary nature of tribology encompasses knowledge drawn from disciplines such as mechanical engineering materials science chemistry and physics The interaction between these different fields of knowledge to achieve the final result the control of friction and wear is reviewed in this volume This interdisciplinary approach has proven to be a very successful way of analysing friction and wear problems In many cases tribology is viewed as an inaccessible subject which does not produce useful answers In this volume the authors redress this problem by providing a comprehensive treatment of the subject A basic feature of the book is the emphasis on describing various concepts in an accessible manner for the benefit of non specialists This principle is applied from the beginning of the book where the reader is introduced to the fundamental concept of tribology This concept is then often used to show how the various topics in tribology are interrelated to form one coherent subject A direct graphical illustration of the mechanisms controlling tribological phenomena is presented Carefully prepared diagrams allow rapid appreciation of the basic ideas and facts in tribology The numerical analysis of hydrodynamic lubrication is supported by a number of computer programs which are included in the book The control of wear is given extensive treatment with a thorough discussion of lubricant additives solid lubricants and surface coatings The effectiveness of coatings in suppressing specific forms of wear is analyzed together with the methods of coatings deposition The book contains 474 figures and 44 tables More than 1000 references are provided to give the reader access to more specialized information if required The volume is intended to provide graduates in engineering or materials science with an understanding of the fundamental concepts of friction wear and lubrication **Life Cycle Tribology** Duncan Dowson,M. Priest,G. Dalmaz,A A Lubrecht,2005-10-13 The 31st Leeds Lyon Symposium on Tribology was held at Trinity and All Saints College in Leeds under the title Life Cycle Tribology from Tuesday 7th September until Friday 10th September 2004 Over the three days of

presentations that followed life cycle tribology was explored across a range of areas including automotive tribology bearings bio degradability and sustainability bio tribology coatings condition monitoring contact mechanics debris effects elastohydrodynamic lubrication lubricants machine systems nanotribology rolling contact fatigue transmissions tribochemistry and wear and failure Invited talks in these fields were presented by leading international researchers and practitioners namely C J Hooke J A Williams R J K Wood G Isaac S C Tung D Price I Sherrington M Hadfield K Kato R I Taylor H P Evans R S Dwyer Joyce and H Rahnejat Proceedings of the Institution of Mechanical Engineers Institution of Mechanical Engineers (Great Britain),1978 Papers Presented at the ... International Conference on Fluid Sealing ,1975

**Frontiers of Tribology** Roberts,1992-01-01 Topics addressed at the April 1991 conference held in Stratford upon Avon UK and sponsored by the Tribology Group of the Institute of Physics UK include adhesion boundary lubrication friction fluid film lubrication surface analysis lubricant additives and other physical aspects with particular focus on underlying mechanisms No index Annotation copyrighted by Book News Inc Portland OR **Technology for Large Space Systems** ,1990 **Tribology for Energy Conservation** L. Flamand,G. Dalmaz,D. Dowson,P.R.N. Childs,Y. Berthier,J.M. Georges,A A Lubrecht,C.M. Taylor,1998-07-23 The 24th Leeds Lyon Symposium was held in London from 4th 6th September 1997 where it was hosted by the Imperial College of Science Technology and Medicine The meeting addressed the topic of Tribology for Energy Conservation and attracted a wide range of stimulating papers and speakers Some 150 delegates from nineteen countries attended and about sixty papers were presented in fifteen sessions These covered the topics of lubricants wear friction reduction hydrodynamics elastohydrodynamic lubrication surface roughness manufacturing component life including condition monitoring and automotive aspects Mechanical Failure, Definition of the Problem Mechanical Failures Prevention Group,1976 **First European Tribology Congress** Institution of Mechanical Engineers (Great Britain). Tribology Group,1975 *New Directions in Tribology* Ian M. Hutchings,1997-03-13 This volume contains 35 present ations on the developments and advances made in tribology Subjects discussed include surface engineering rolling bearings thermal effects in tribo systems and environmental issues in tribology Tribology in Iron and Steel Works Iron and Steel Institute,1970 **Tribology Convention, 1968** ,1968 Advances in Materials Processing and Manufacturing Applications Amar Patnaik,Ernst Kozeschnik,Vikas Kukshal,2021-06-22 This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications iCADMA 2020 held on November 5 6 2020 at Malaviya National Institute of Technology Jaipur India iCADMA 2020 proceedings is divided into four topical tracks Advanced Materials Materials Manufacturing and Processing Engineering Optimization and Sustainable Development and Tribology for Industrial Application

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