

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

**Gwidon Stachowiak, Andrew W
Batchelor**



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

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

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 Convention [papers]. , 1969

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

Proceedings of the Institution of Mechanical Engineers Institution of Mechanical Engineers (Great Britain), 1978

NBS Special Publication , 1976

Engineering Tribology Gwidon Stachowiak, Andrew W Batchelor, 2011-03-31 As with the previous edition the third edition of Engineering Tribology provides a thorough understanding of friction and wear using technologies such as lubrication and special materials Tribology is a complex topic

with its own terminology and specialized concepts yet is vitally important throughout all engineering disciplines including mechanical design aerodynamics fluid dynamics and biomedical engineering This edition includes updated material on the hydrodynamic aspects of tribology as well as new advances in the field of biotribology with a focus throughout on the engineering applications of tribology This book offers an extensive range of illustrations which communicate the basic concepts of tribology in engineering better than text alone All chapters include an extensive list of references and citations to facilitate further in depth research and thorough navigation through particular subjects covered in each chapter Includes newly devised end of chapter problems Provides a comprehensive overview of the mechanisms of wear lubrication and friction in an accessible manner designed to aid non specialists Gives a reader friendly approach to the subject using a graphic illustrative method to break down the typically complex problems associated with tribology

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

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

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

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 **Technology for Large Space Systems** ,1990 *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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