

Bowden / Tabor

Reibung und Schmierung fester Körper

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Gerhard Heinicke



Reibung Und Schmierung Fester Körper:

Reibung und Schmierung fester Körper Frank P. Bowden, D. Tabor, 2013-03-13 Schichten von Kohlenwasserstoffverbindungen geschmiert waren vor allem von Sir WILLIAM HARDY durchgeführt Er zeigte insbesondere welche wichtige Rolle eine monomolekulare Schmiersehicht die so genannten Grenzsehicht oder das Epilamen nach HOLLI spielt Dieser an der Oberfläche haftende Film besitzt eine bestimmte Orientierung und übt auf die Reibung eine tiefgreifende Wirkung aus HARDYS Versuche waren elegant und einfach angelegt und er betonte die Notwendigkeit beim Studium dieser Oberflächeneigenschaften moderne physikalische und chemische Auffassungen und Methoden anzuwenden Seine Arbeit hat mehr als jede andere eine zeitgemäße Bearbeitung dieses Gebietes angeregt Das vorliegende Buch beschreibt eine experimentelle Erforschung der physikalischen und chemischen Vorgänge die sich beim Berühren und Dberineinandergleiten fester Oberflächen abspielen sowie ein Suchen nach dem Mechanismus der Reibung und der Grenzschmierung Die erste Frage die wir uns stellen lautet Welche wirkliche Kontaktfläche entsteht wenn feste Körper miteinander in Berührung gebracht werden Es zeigt sich daß selbst auf das sorgfältigste angefertigte Oberflächen Hügel und Täler aufweisen die im Vergleich zu molekularen Dimensionen groß sind Die Körper werden gegenseitig auf den Gipfeln ihrer Unebenheiten abgestützt so daß die Fläche engster Berührung sehr klein ausfällt Die wirkliche Kontaktfläche ist tatsächlich beinahe unabhängig von der Ausdehnung der Oberflächen und vorwiegend durch die Last bestimmt da unter der hohen örtlichen Druckbeanspruchung an den Berührungsstellen plastische Verformung und Fließen statt finden bis eine der Belastung standhaltende Tragfläche geschaffen ist *Dry Full Forward Extrusion by Textured Workpieces and Self-Lubricating Tool Coatings* Rafael Hild, 2020-09-30 Aus ökonomischen ökologischen und legislativen Gründen ist es notwendig Schmierstoffe zu substituieren Insbesondere in der Kaltmassumformung ist dies aufgrund von hohen Belastungen schwer umsetzbar Der Ansatz dieser Dissertation ist es mithilfe einer vom Institut für Oberflächentechnik entwickelten Werkzeugbeschichtung und einer Texturierung der Halbzeuge eine Trockenumformung zu ermöglichen Die Ergebnisse haben eine Machbarkeit gezeigt jedoch ist adh immer Verschleiß ein Problem Lubricants and Lubrication Theo Mang, Wilfried Dresel, 2017-02-02 Praise for the previous edition Contains something for everyone involved in lubricant technology Chemistry Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the business The authors take into account the interdisciplinary character of the field considering aspects of engineering materials science chemistry health and safety The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications focusing not only on the various products but also on specific application engineering criteria A classic reference work completely revised and updated approximately 35% new material focusing on sustainability and the latest developments technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary

introduction and guide to all major lubricant applications looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety New guidelines such as REACH recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro and nano tribology and lubrication systems Reflects the knowledge of Fuchs Petrolub SE one of the largest companies active in the lubrication business 2 Volumes wileyonlinelibrary com ref lubricants *NASA Conference Publication* ,1979

Tribochemistry Gerhard Heinicke,1984-12-31 No detailed description available for Tribochemistry **Lager und Schmierung** Hans List,2013-12-14 *Lager und Schmierung* Kurt Milowiz,2013-07-01 Von Herrn Professor Dr HANS LIST wurde ich eingeladen im Rahmen der von ihm herausgegebenen Sammlung Die Verbrennungskraftmaschine das Thema Lager und Schmierung zu behandeln Gerne folgte ich diesem Wunsche besonders da ich die in diesem Band beschriebene Berechnungsmethode seit Jahren an zahlreichen Beispielen mit Erfolg anwenden konnte und so ihre Brauchbarkeit in der Praxis durch Nachrechnung vorhandener und Vorausberechnung neuer Lager bewiesen ist Der Grundstock daf r wurde schon auf der Technischen Hochschule Graz von meinen ehemaligen Lehrern Herrn Professor Dr techn A STELLER Herrn Professor Dr techn A KLEMEXCIC und Herrn Professor Dr Ing K BAUER gelegt Auch meine Mitarbeit im VDI im Arbeitskreis Deutscher Konstruktionsingenieure ADKI wirkte sieh befruchtend aus Das Hauptgewicht liegt auf der Berechnung und Konstruktion von Gleitlagern da die W lzlager dem Konstrukteur keine besonderen Schwierigkeiten bereiten Von den W lzlagerfirmen wird ja in reichem Ma e Literatur und pers nliche Unterst tzung durch Fachkr fte zur Verf gung gestellt Die Gleitlager aber geben dem Konstrukteur bei ihrer Berechnung und Konstruktion sehr viel Freiheit Er mu alle Angaben daf r selbst machen der Werkstoff das Lagerspiel die Oberfl cheng te die Ausf h rung der Lauffl chen und letzten Endes der Schmierstoff alldiesliegt mit s mtlichen Kombinations m glichkeiten zur Auswahl in seiner Hand Die vorliegende Arbeit enth lt ausgehend von den Grundlagen alles Wesentliche um Lagerberechnungen jeder Art durchf hren zu k nnen f r den Studierenden auf bauend Stufe um Stufe f r den in der Praxis Stehenden ein Rezeptbuch mit Beispielen und Vergleichen

Mechanik der Festk rper Erwin Lohr,2019-04-15 Keine ausf hrliche Beschreibung f r Mechanik der Festk rper verf gbar International Catalogue of Scientific Literature [1901-1914] ,1902 Einfluß der Oberflächenenergie auf das Verhalten fester K rper Wladimir D. Kusnezow,1961-12-31 Keine ausf hrliche Beschreibung f r Einflu der Oberfl chenenergie auf das Verhalten fester K rper verf gbar System Dynamics and Long-Term Behaviour of Railway Vehicles, Track and Subgrade Karl Popp,Werner Schiehlen,2013-06-06 During the last decades completely new technologies for high speed railway vehicles have been developed The primary goals have been to increase traction axle load and travelling speed and to guarantee the safety of the passengers However new developments have revealed new limitations settlement and destruction of the ballast and the subgrade lead to deterioration of the track irregular wear of the wheels causes an increase in overall load and deterioration in passenger comfort and damage of the running surfaces of the rail and the wheel is becoming more

frequent These problems have been investigated in the Priority Programme SPP 1015 supported by the Deutsche Forschungsgemeinschaft DFG with the goal of better understanding of the dynamic interaction of vehicle and track and the long term behavior of the components of the system The book contains the scientific results of the programme as presented at the concluding colloquium held at University of Stuttgart Germany 2002 **Technische Oberflächenkunde** Gustav Schmaltz, 2013-07-02 Dieser Buchtitel ist Teil des Digitalisierungsprojekts Springer Book Archives mit Publikationen die seit den Anfängen des Verlags von 1842 erschienen sind Der Verlag stellt mit diesem Archiv Quellen für die historische wie auch die disziplingeschichtliche Forschung zur Verfügung die jeweils im historischen Kontext betrachtet werden müssen Dieser Titel erschien in der Zeit vor 1945 und wird daher in seiner zeittypischen politisch ideologischen Ausrichtung vom Verlag nicht beworben Maschinenteile G. Köhler, 2013-03-13 Die vorliegende siebente Auflage des Teil 2 der Maschinenteile wurde wie Teil 1 unter Berücksichtigung einer Reihe von Wünschen aus den Kreisen der Leser und unter Beachtung der technischen Entwicklung sowie der gesammelten Lehrerfahrung vollständig neu bearbeitet erweitert und neu gestaltet Die Darlegung des Stoffes führt in den meisten Fällen im Sinne der Konstruktionsmethodik von der Aufgabenstellung über die Funktion Berechnung und Gestaltung zu Lösungenmöglichkeiten Auch wurden viele Berechnungsgleichungen hergeleitet physikalische Abhängigkeiten und allgemeine Zusammenhänge aufgezeigt und auf Probleme hingewiesen um so Entscheidungshilfen für den Studierenden für den Konstrukteur wie auch für den Ingenieur im Betrieb zu geben Die Berechnung wird durch reiches Zahlenmaterial und durch viele Zahlenbeispiele erleichtert Manche Bilder sind bewussten schematisch dargestellt um das Wesentliche aufzuzeigen und um deren allgemeine Auslegbarkeit nicht einzuschränken Durch die jedem Abschnitt vorangestellten wichtigsten Normen soll der Leser angeregt werden sich mit den Original DIN Normblättern vertraut zu machen Eine schnelle Orientierung über die wichtigsten Normen gestattet das vom DIN Deutsches Institut für Normung e V herausgegebene Buch Klein Einführung in die DIN Normen Wegen des Einflusses der Herstellverfahren auf die Konstruktion der Maschinenteile wurden soweit im Rahmen des vorliegenden Werkes möglich werkstoff- und fertigungsgerechtes Gestalten mitbehandelt *Untersuchung der Notlaufeigenschaften ionitrierter Laufflächen bei gleitender Reibung* Alfred Friedrich Steinegger, 2013-10-05 Die Anwendung der stromstarken Glimmentladung nach BERGHAUS Ionitrieren ermöglicht die Erzeugung von Nitrierschichten von hoher Härte und Zähigkeit Die Versuchsbedingungen waren auf Probleme die in der Praxis vorliegen abzustimmen wobei zur Prüfung der Notlaufeigenschaften bei Abnutzungsversuchen auf einer AMSLER Abnutzungsmaschine die Schmierung durch Wassereinwirkung beeinträchtigt wurde Dies hat eine kurzzeitige hohe Reibungsbeanspruchung und eine hohe Abnutzung der Laufflächen zur Folge es ergaben sich bei den Untersuchungen folgende Ergebnisse Durch eine Ionitrierung beider Laufflächen einer Versuchspaarung kann eine wesentliche Verbesserung des Abnutzungsverhaltens verglichen mit einsatzgetriebenen und lagersgetriebenen Reibflächen erzielt werden Diese Verbesserung drückt sich in einem wesentlich späteren Anstieg der Reibzahlen

nach Beginn der Wassereinwirkung aus die Standzeit erhöhte sich bei ionitrierten Laufflächen auf das anderthalb bis sechsfache gegenüber den Ausgangszuständen Auch die Vergleiche der Gewichtsverluste der Probekörper ergeben für ionitrierte Laufflächen eine Verbesserung in der gleichen Größenordnung Diese Verbesserung tritt besonders bei hohen Beanspruchungen und bei einsatzgehrten Paarungen in Erscheinung sie wird durch die metallographische Auswertung bestätigt und ergänzt wobei gleichzeitig die große Formbeständigkeit der ionitrierten Probekörper heraussticht Dabei mußten für die Ionitrierung teilweise ungünstige Vorbedingungen in Kauf genommen werden Die Anwendung dieser Erkenntnisse in der Praxis ergab eine mindestens ebenso große Steigerung der Standzeiten und bestätigte somit eindrücklich die durch die Ionitrierung erzielte Verbesserung des Abnutzungsverhaltens und die weitgehende Reproduzierbarkeit der Laborversuche

Dubbels Taschenbuch für den Maschinenbau Ch Bouché, M. Dubbel, A. Leitner, F. Sass, 2013-12-21 **Heinrich]**

Dubbels Taschenbuch für den Maschinenbau Charles Bouché, Heinrich Dubbel, A. Leitner, Friedrich Sass, 2019-06-12

Beiträge zum abnutzungs-problem mit besonderer berücksichtigung der abnutzung von zahnradern Werner Bondi, 1927 Maschinenteile J. Pokorny, 2013-07-01 **Verschleiß metallischer Werkstoffe** Karl Sommer, Rudolf

Heinz, Jörg Schöfer, 2018-04-26 Dieses Fachbuch ist vor allem für die praktische Arbeit des Ingenieurs gedacht und zeigt den richtigen Umgang anhand zahlreicher Schadensbeispiele Außerdem gibt es zuverlässige Hilfestellung bei der Analyse und Beurteilung von Verschleißproblemen Weiterhin beschreibt es geeignete Maßnahmen für die Optimierung von Sicherheit und Zuverlässigkeit beim Betrieb von Anlagen und Maschinen Die neue aktuelle Auflage enthält an jedem Hauptkapitelanfang Kurzzusammenfassungen zur schnellen Orientierung Die Qualität einzelner Bilder wurde verbessert Advances in

Composite Tribology K. Friedrich, 2012-12-02 Much research has been carried out and a lot of progress has been made towards the use of composite materials in a wide field of tribological applications In recent years studies have been made to determine to what degree phenomena governing the tribological performance of composites can be generalized and to consolidate interdisciplinary information for polymer metal and ceramic matrix composites The importance of promoting better knowledge in the areas of friction lubrication and wear in general is demonstrated by the contents of this volume It covers a wide range of subjects extending from fundamental research on the tribological characteristics of various multiphase materials up to final applications of composites in wear loaded technical components Besides the emphasis on composites tribology the great practical aspect of the field in many industrial applications is also reviewed by authors who are engaged in applied research as well as those in more academic activities The articles in this volume will facilitate both researchers and mechanical designers in their work towards a set of predictive materials engineering related models for a more reliable use of composites as tribomaterials Through the study of and observation of the tribology of sensibly formulated composite systems may emerge a clear and more profound understanding of the subject of tribology In this sense this book offers a major and critical evaluation of the state of understanding of the principles of tribology and its ability to

serve the practical and commercial needs of this technology generally and particularly in the context of composite systems

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