

Name: _____
Period: _____

Newton's Laws and Forces Review

- Moving? Yes, No, or Maybe?
 - An object at constant speed? *Maybe (could be 0)*
 - An object with a net force? *Yes if $F_{net} \neq 0$, then $a \neq 0$. Must speeding up.*
 - An object with friction? *Maybe. $F_s \neq 0$ $F_f \neq 0$*
 - An object at equilibrium? *Maybe - could be cruise control*
 - An object with a force acting on it? *Maybe - could have another force on it.*
 - An object with static friction greater than an applied force? *No*
 - At rest on a table? *No*

- At Equilibrium? Yes, No, or Maybe?
 - An object with multiple force acting on it? *Maybe - could be same dir.*
 - A projectile at the top of its path (when $v_y = 0$)? *No $a_y = -9.8$*
 - An object with no net force? *$F_{net} = 0$ $a = 0$ Yes.*
 - An object slowing down? *No*
 - An object with friction? *Maybe - only if $F_f = F_{applied}$*
 - An object speeding up? *No, has an accel.*
 - An object at constant speed? *$\Delta v = 0$, $a = 0$, $F_{net} = 0$ Yes.*

- Find the weights for these objects: A. A 2 kg object: $P_w = 20\text{ N}$; B. A 30 N object: $P_w = 30\text{ N}$

- What is the Normal Force on an object suspended by a rope? *zero*

- A car is *started* going down a hill. The force of gravity is pulling it down the hill and the force of friction of its brakes is pulling it up the hill. If these two forces are equal,
 - Is the car at equilibrium? *yes*

- Is the car accelerating? *No*
- Is the car moving? *Maybe could be stopped.*

- What is the force of gravity on a 10 kg object? *100 N $a = -9.8\text{ m/s}^2$*

- What is the force of gravity on a 1 kg object? *10 N $a = -9.8\text{ m/s}^2$*

- A 4 kg object moving 24 m/s slows to 4 m/s in 20 meters.

- What kind of friction was this? *F_k*
- Find the force that caused the object to slow down.

$$m = 4\text{ kg} \quad a = \text{---} \quad v_f^2 = v_i^2 + 2ax$$

$$v_i = 24$$

$$v_f = 4$$

$$\Delta x = 20$$

- Find the coefficient of friction for this surface.

$$F_f = \mu F_N \quad \mu = \frac{F_f}{F_N} = \frac{56}{40} = 1.4$$



$$a = \frac{-560}{40} = -14\text{ m/s}^2$$

$$F = ma = 4(-14) = -56\text{ N}$$

- A 60 kg person is sliding down a rope at constant speed. Find the force of friction of the rope acting on the person.

if at constant speed

$$a = 0, \Sigma F = 0$$



$$\Sigma F_f - F_g = m(0) \\ F_f = F_g = 600\text{ N}$$

- If $M_1 = 4\text{ kg}$ and $M_2 = 8\text{ kg}$, find the acceleration of the system if $\mu_k = 0.2$.

$$F_k = 0.2(40) = 8\text{ N}$$

$$\Sigma F_1 = m_1 a$$

$$-8 + T = 4a$$

$$\Sigma F_2 = m_2 a$$

$$80 - T = 8a$$

$$80 - (4a + 8) = 8a$$

$$80 - 4a - 8 = 8a$$

$$72 = 12a$$

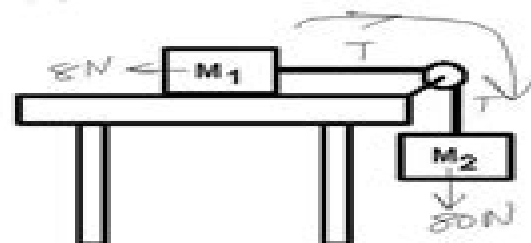
$$6a = 2$$

you could put 'a' back into one of the above equations to find T.

Solve for T in 1 eq., subst. into other.

$$T = 4a + 8$$

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Surface Friction Cstephenmurray Answers

Fred M. Johnson



Surface Friction Cstephenmurray Answers:

Physics of Sliding Friction Bo N.J. Persson, E. Tosatti, 2013-04-17 The study of sliding friction is one of the oldest problems in physics and certainly one of the most important from a practical point of view. Low friction surfaces are in increasingly high demand for high tech components such as computer storage systems, miniature motors and aerospace devices. It has been estimated that about 5% of the gross national product in the developed countries is wasted on friction and the related wear. In spite of this, remarkably little is understood about the fundamental microscopic processes responsible for friction and wear. The topic of interfacial sliding has experienced a major burst of interest and activity since 1987, much of which has developed quite independently and spontaneously. This volume contains contributions from leading scientists on fundamental aspects of sliding friction. Some problems considered are: What is the origin of stick and slip motion? What is the origin of the rapid processes taking place within a lubricant layer at low sliding velocities? On a metallic surface, is the lubrication layer electronic or phononic friction the dominating energy dissipation process? What is the role, if any, of self-organized criticality in sliding friction? How thick is the water layer during sliding on ice and snow? These and other questions raised in this book are of course only partly answered; the topic of sliding friction is still in an early state of development. **Surface Friction**, 2004 Fundamentals of Friction I.L. Singer, H. Pollock, 2012-12-06 Fundamentals of Friction, unlike many books on tribology, is devoted to one specific topic: friction. After introductory chapters on scientific and engineering perspectives, the next section contains the necessary background within the areas of contact mechanics, surfaces and adhesion. Then on to fracture, deformation and interface shear, from the macroscopic behavior of materials in frictional contact to microscopic models of uniform and granular interfaces. Lubrication by solids, liquids and gases is presented next, from classical flow properties to the reorganization of monolayers of molecules under normal and shear stresses. A section on new approaches at the nano and atomic scales covers the physics and chemistry of interfaces, an array of visually exciting simulations using molecular dynamics of solids and liquids in sliding contact and related AFM/STM studies. Following a section on machines and measurements, the final chapter discusses future issues in friction. Sliding Friction Bo N.J. Persson, 2013-03-14 Sliding friction is one of the oldest problems in physics and certainly one of the most important from a practical point of view. The ability to produce durable low friction surfaces and lubricant fluids has become an important factor in the miniaturization of moving components in many technological devices, e.g. magnetic storage, recording systems, miniature motors and many aerospace components. This book will be useful to physicists, chemists, materials scientists and engineers who want to understand sliding friction. The book or parts of it could also form the basis for a modern undergraduate or graduate course on tribology. This second edition covers several new topics including friction on superconductors, experimental studies and computer simulations of the layering transition, nanoindentation, wear in combustion engines, rubber wear effects due to humidity, rolling and sliding of carbon nanotubes and the friction dynamics of granular materials. *Predicting Surface*

Friction from Laboratory Tests William H. Parcells, T. M. Metheny, R. G. Maag, 1982* Friction and Wear: From Elementary Mechanisms to Macroscopic Behavior Valentin L. Popov, Roman Pohrt, 2019-08-21 Friction and the interaction of surfaces can usually be felt at the scale of the contacting bodies. Indeed, phenomena such as the frictional resistance or the occurrence of wear can be observable with plain eye but to characterize them and in order to make a prediction a more detailed understanding at smaller scales is often required. These can include individual roughness peaks or single molecule interactions. In this Research Topic we have gathered a collection of articles representing the state of the art in tribology's endeavor to bridge the gap between nano scale elementary research and the macroscopic behavior of contacting bodies. These articles showcase the breadth of questions related to the interaction of micro and macro scale and give examples of successful transfer of insights from one to the other. We are delighted to present this Research Topic to the reader with the hope that it will further inspire and stimulate research in the field. Friction Surface Phenomena G.P. Shpenkov, 1995-04-07 This monograph summarises results of research in some surface phenomena observed in mechanical treatment and friction. In particular, the book is devoted to urgent problems of the science of friction and wear and provides insight into the mechanism of the phenomena that cause on the one hand anomalously low coefficients of friction and wear, the so-called selective transfer, and on the other dramatic damages of the surface layers during sliding hydrogen wear of metals. The nature of metal interaction during sliding in selective transfer and hydrogen wear modes is analysed in detail. Furthermore, results of studies concerned with certain aspects of phenomena appearing in the process of influencing contacting surfaces and with detecting the relationship between the observed characteristics and behavior of investigated materials in the process of mechanical treatment and friction are presented. The principle followed is to combine varied experimental facts, physical concepts and investigation methods which at first sight appear to be unrelated and using this approach to determine general rules. Chapter one provides the reader with a general understanding of fundamental surface phenomena which provide the background to their dynamic interaction in mechanical treatment and under friction. Chapter two deals with the laws governing the influence of mechanical effects on the surface. The third chapter presents the fundamentals of the selective transfer theory under friction. Other chapters deal with the possibilities of the Mossbauer electron spectroscopy method widely used in physics for solving tribology problems, the influence of external electromotive force sources on contact resistance and friction, pairs wear and hydrogen wear of metals under friction. *Friction* Thomas Ernest Stanton, 1923 **Fundamentals of Friction and Wear** Enrico Gnecco, Ernst Meyer, 2007-05-26 In the past twenty years, powerful tools such as atomic force microscopy have made it possible to accurately investigate the phenomena of friction and wear down to the nanometer scale. Readers of this book will become familiar with the concepts and techniques of nanotribology explained by an international team of scientists and engineers actively involved and with long experience in this field. Edited by two pioneers in the field, *Fundamentals of Frictions and Wear at the Nanoscale* is suitable both as first

introduction to this fascinating subject and also as a reference for researchers wishing to improve their knowledge of nanotribology and to keep up with the latest results in this field *Friction Surface Phenomena* Georgii Petrovich Shpen'kov,1995-01-01 This monograph summarises results of research in some surface phenomena observed in mechanical treatment and friction In particular the book is devoted to urgent problems of the science of friction and wear and provides insight into the mechanism of the phenomena that cause on the one hand anomalously low coefficients of friction and wear the so called selective transfer and on the other dramatic damages of the surface layers during sliding hydrogen wear of metals The nature of metal interaction during sliding in selective transfer and hydrogen wear modes is analysed in detail Furthermore results of studies concerned with certain aspects of phenomena appearing in the process of influencing contacting surfaces and with detecting the relationship between the observed characteristics and behavior of investigated materials in the process of mechanical treatment and friction are presented The principle followed is to combine varied experimental facts physical concepts and investigation methods which at first sight appear to be unrelated and using this approach to determine general rules Chapter one provides the reader with a general understanding of fundamental surface phenomena which provide the background to their dynamic interaction in mechanical treatment and under friction Chapter two deals with the laws governing influence of mechanical effects on the surface The third chapter presents the fundamentals of the selective transfer theory under friction Other chapters deal with the possibilities of the Mossbauer electron spectroscopy method widely used in physics for solving tribology problems the influence of external electromotive force sources on contact resistance and friction pairs wear and hydrogen wear of metals under friction Source inconnue

Analyzing Friction in the Design of Rubber Products and Their Paired Surfaces Robert Horgan Smith,2008-03-24 Taking a mechanistic approach that emphasizes the physical behavior of rubber as it slides Analyzing Friction in the Design of Rubber Products and Their Paired Surfaces integrates the engineering and scientific evidence demonstrating that the laws of metallic friction do not apply to rubber The book also presents a newly developed scienti **Surface Friction of Planes**

Moving Through a Fluid Harrison Lackenby,1937 *Surface Friction* Red Head Gallery (Toronto, Ont.),2004 **Slips and Falls** Fred M. Johnson,2008 Slips and Falls A new Approach to Friction Measurements is an explanation of the physics topic of friction and its relation to slips and falls It clearly guides you through the physics principles involved measurement techniques equipment and technology and details their validity and accuracy It is an essential book for any professional involved in the investigation research and litigation of slip and fall incidents *Sliding Friction* Bo Persson,2014-01-15

Toward Understanding Low Surface Friction on Quasiperiodic Surfaces Keith McLaughlin,2011-01 In a 2005 article in Science Park et al measured in vacuum the friction between a coated atomic force microscope tip and the clean two fold surface of an AlNiCo quasicrystal Because the two fold surface is periodic in one direction and aperiodic with a quasiperiodicity related to the Fibonacci sequence in the perpendicular direction frictional anisotropy is not unexpected

however the magnitude of that anisotropy in the Park experiment a factor of eight is unprecedented By eliminating chemistry as a variable the experiment also demonstrated that the low friction of quasicrystals must be tied in some way to their quasiperiodicity Through various models we investigate generic geometric mechanisms that might give rise to this anisotropy

Atmospheric Friction with Special Reference to Aeronautics Albert Francis Zahm,1904 *Tire-to-surface Friction Especially Under Wet Conditions* R. H. Sawyer,1959 Toward Understanding Low Surface Friction on Quasiperiodic Surfaces Keith McLaughlin,2009 ABSTRACT In a 2005 article in Science 45 Park et al measured in vacuum the friction between a coated atomic force microscope tip and the clean two fold surface of an AlNiCo quasicrystal Because the two fold surface is periodic in one direction and aperiodic with a quasiperiodicity related to the Fibonacci sequence in the perpendicular direction frictional anisotropy is not unexpected however the magnitude of that anisotropy in the Park experiment a factor of eight is unprecedented By eliminating chemistry as a variable the experiment also demonstrated that the low friction of quasicrystals must be tied in some way to their quasiperiodicity Through various models we investigate generic geometric mechanisms that might give rise to this anisotropy **On the Measurement of Local Surface Friction on a Flat Plate by Means of Preston Tubes** National Physical Laboratory. Aerodynamics Division,1958

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