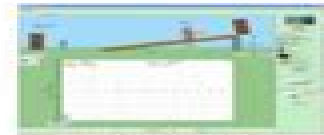


The Ramp (and Friction) PhET Simulation Lab

Introduction:

When an object is dragged across a horizontal surface, the force of friction that must be overcome depends on the normal force as $F_f = \mu F_n$ and the normal

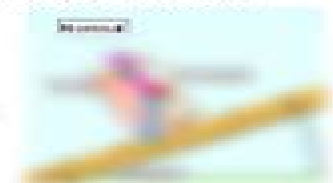
force is given by $F_n = F_g$. When the surface becomes an inclined plane, the normal force changes and when the normal force changes, so does the friction. In this lab, you will change the angle of an inclined plane and observe how weight is resolved into its components (F_n and F_g) using the basic trig functions.



The Ramp

Procedure: Play with the Sims → Physics → Motion → The Ramp Run Now!

- Be sure to stay in the introduction part of the simulation. *More features* will be used later when we investigate energy. Start by playing with the cabinet some. Have fun, really... Now...back to work.
 - Move the cabinet up and down the ramp by dragging it with your mouse.
 - Move the ramp to an angle of zero (horizontal) and draw a free body diagram of the cabinet here:
1. On a horizontal plane, the normal force is perpendicular to the weight.
 2. The cabinet has a mass of 100kg. It therefore has a normal force of 980 N N and a friction force (on the horizontal plane) of 294 N $\mu = 0.30$
- Reset the ramp and draw a free body diagram of the cabinet in the box here:
3. The force down the plane and normal force are components of weight.
 4. Before we add an applied force on the ramp, there is a force of friction that acts against the force down the plane(Force parallel).
 5. When we apply a force to get the cabinet moving, the friction force acts in the opposite direction as movement of the cabinet.
 6. **Slowly** increase angle (0.1 degrees at a time) of the ramp until the cabinet starts to move on its own. What angle is this? 16.8 ° = θ



| | |
|---|---|
| 1. On a horizontal plane, the normal force is perpendicular to the weight. | 2. The cabinet has a mass of 100kg. It therefore has a normal force of 980 N N and a friction force (on the horizontal plane) of 294 N $\mu = 0.30$ |
| 3. The force down the plane and normal force are components of weight . | 4. Before we add an applied force on the ramp, there is a force of friction that acts against the force down the plane(Force parallel). |
| 5. When we apply a force to get the cabinet moving, the friction force acts in the opposite direction as movement of the cabinet. | 6. Slowly increase angle (0.1 degrees at a time) of the ramp until the cabinet starts to move on its own. What angle is this? 16.8 ° = θ |
| 7. On a horizontal plane, the normal force is perpendicular to the weight. | 8. The cabinet has a mass of 100kg. It therefore has a normal force of 980 N N and a friction force (on the horizontal plane) of 294 N $\mu = 0.30$ |
| 9. The force down the plane and normal force are components of weight . | 10. Before we add an applied force on the ramp, there is a force of friction that acts against the force down the plane(Force parallel). |
| 11. When we apply a force to get the cabinet moving, the friction force acts in the opposite direction as movement of the cabinet. | 12. Slowly increase angle (0.1 degrees at a time) of the ramp until the cabinet starts to move on its own. What angle is this? 16.8 ° = θ |

Physics Ramp Lab With Friction Simulation Answnrs

Lauren Gardner



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Mechanics Reviews ,1972 **AIAA Journal** American Institute of Aeronautics and Astronautics,2007 *EUROSHOCK - Drag Reduction by Passive Shock Control* Egon Stanewsky, Jean Delery, John Fulker, Wolfgang Geißler, 2013-04-17 It has been recognized by the European Union EU that the survival of the Aeronautical Industries of Europe in the highly competitive World Aviation Market is strongly dependent on such factors as time to market of a new or derivative aircraft and on its manufacturing costs but also on the achievement of a competitive technological advantage by which an increased market share can be gained Cooperative research is therefore continuously encouraged and co financed by the European Union in order to strengthen the scientific and technological base of the Aeronautical Industries thus facilitating the future design and manufacture of civil air craft products and providing the technological edge needed for survival Targets of research within Area 3 Aeronautics of the Industrial and Materials Technology Programme 1991 1993 have been identified to be aircraft efficiency cost effectiveness and environmental im pact Concerning aircraft efficiency relevant to the present research a reduction in aircraft drag of 10010 a reduction in aircraft fuel consumption of 30010 and a reduction in airframe en gine and system weight of 20% are envisaged Meeting these objectives has of course also a strong positive impact on the environment In order to further technology the philosophy is to avoid spreading the available resources too thinly and rather concentrate on the feasibility demonstration of a limited number of tech nologies of high economic and industrial impact

International Aerospace Abstracts ,1996 Physics Briefs ,1994 **AIAA 20th Fluid Dynamics, Plasma Dynamics and Lasers Conference** ,1989 **Government Reports Announcements & Index** ,1981 *Index Aeronauticus* ,1967 Computer Simulation in Materials Science H.O. Kirchner, Ladislav P. Kubin, Vassilis Pontikis, 1996-01-31 For decades to come the limits to computing power will not allow atomistic simulations of macroscopic specimens Simulations can only be performed on various scales nano meso micro and macro using the input provided by simulations or data on the next smaller scale The resulting hierarchy has been the focus of many seminars and lectures Necessarily special emphasis has been placed on mesoscopic simulations bridging the gaps between nano atomic and micro space and time scales The contributors to Computer Simulation in Materials Science consider both fundamental problems and applications Papers on the evolution of morphological patterns in phase transformations and plastic deformation irradiation effects mass transport and mechanical properties of materials in general highlight what has already been achieved It is concluded that computer simulations must be based on realistic and efficient models the fundamental equations controlling the dynamical evolution of microstructures stochastic field kinetic models being a case in point The mesoscopic approach has proved particularly effective in plastic deformation and work hardening On the mesoscopic scale the contributions made to the deformation of polycrystals and localized plastic flow show the importance of computing power in ongoing and future research *Centennial Articles* Robert D. Hatcher, William A. Thomas, Geological Society of America, 1990-01-01 **Government Reports Announcements** ,1972-02-03 **Aeronautical Engineering** ,1993 A

selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Monthly Catalogue, United States Public Documents** ,1982 **Monthly Catalog of United States Government Publications** ,1982

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