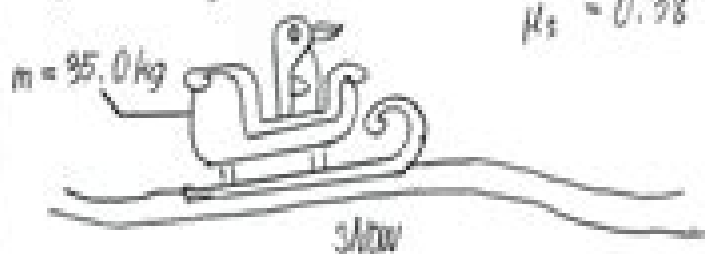


OBJECTIVES :

1. Discuss the formulas in uniform circular motion; and
2. Apply Newton's law in solving problems involving uniform circular motion.

PROBLEM SET :

1. A sled is resting on a horizontal patch of snow, and the coefficient of static friction is $\mu_s = 0.38$. The sled and its rider have a total mass of 35.0-kg. What is the magnitude of the maximum horizontal force that can be applied to the sled before it just begins to move?



Since snow is a smooth surface, it decreases the friction force required to move the sled. Thus,

$$F_f = \mu_s F_N$$

Applying Newton's 2nd Law of Motion,

$$F_N = ma = (35.0 \text{ kg})(9.8 \text{ m/s}^2)$$
$$F_N = 343 \text{ N}$$

This force will decrease:

$$F_f = (0.38)(343 \text{ N})$$

$$F_f = 130.34 \text{ N}$$

This is the magnitude of the maximum horizontal force that can be applied to the sled before it just begins to move.

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**Bryan Armentrout, ROGER.
FREEDMAN, Santo D'Agostino, Michael
Dunham, Timothy A. French**

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College Physics Raymond A. Serway, 1995 *Practical Problems to Accompany College Physics* Raymond A. Serway, 1997-11 Contains about 400 problems that do not appear in the text are available with full solutions in a printed version and on the Instructor's Resource CD ROM These can be used for examinations homework assignments or student practice and drill exercises This problems booklet over 300 supplemental problems providing additional practice to help you master the concepts of physics is also available at a low cost to the student After consulting with their instructor students may wish to purchase an additional set of skill building practice problems with solutions in print form These problems will provide extra practice in unit conversions and other mathematical basics for students who need to build confidence in solving physics problems

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Problem - Solving Guide with Solutions to Accompany Bryan Armentrout, ROGER. FREEDMAN, Santo D'Agostino, Michael Dunham, Timothy A. French, 2018 **Solutions of Weekly Problem Papers** John James Milne, 1885 *Problems and Solutions in University Physics* Fuxiang Han, Shu Zheng, Shufeng Li, 2017-11-15 This book is the solution manual to the textbook *A Modern Course in University Physics* It contains solutions to all the problems in the afore mentioned textbook This solution manual is a good companion to the textbook In this solution manual we work out every problem carefully and in detail With this solution manual used in conjunction with the textbook the reader can understand and grasp the physics ideas more quickly and deeply Some of the problems are not purely exercises they contain extension of the materials covered in the textbook Some of the problems contain problem solving techniques that are not covered in the textbook College Physics Randall Dewey Knight, Brian Jones, Stuart Field, 2007

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