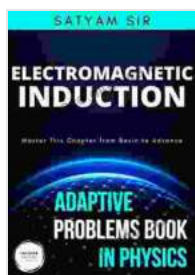


Master This Chapter: Conquer Physics Problems from Basic to Advanced

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Vol 23: Electromagnetic Induction: Physics Factor Adaptive Problems Book Series in Physics: Master this Chapter from Basic to Advance (Adaptive Problems Book in Physics Series) by edulink GmbH

★★★★★ 5 out of 5

Language : English

File size : 7484 KB

Screen Reader: Supported

Print length : 160 pages

Lending : Enabled



This book is not just a collection of dry formulas and equations. It is a carefully crafted guide that takes you on a journey of discovery, starting with the basics and gradually building up to advanced concepts. Along the way, you will encounter real-world examples, thought-provoking questions, and step-by-step solutions that will help you not only solve problems but also develop a deep understanding of the underlying physics principles.

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Question:



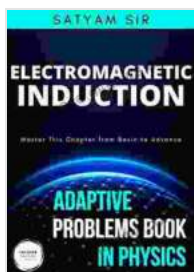
A force F is exerted at an angle θ on a box of mass m as it is dragged across the floor at constant velocity. If the box travels a distance x , then the work done by the force F on the box is

- a. θx
- b. $Fx \cos \theta$
- c. $mgx \cos \theta$
- d. $Fx \sin \theta$
- e. $Fx \tan \theta$

Answer:

The correct answer is *b*. Work done by an object is calculated according to the Work formula $W = F \cdot x$, or $W = Fx \cos \theta$. There are a couple of distractors in this problem: the mass m of the box is not needed in the solution, and the box's constant velocity isn't required.

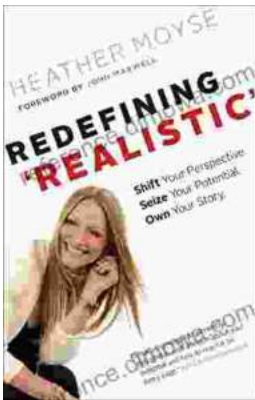
The fact that the box is traveling at constant velocity implies that there is friction impeding its motion, but evidently the energy "lost" to friction is equal to the work being done by the force F , so that the net Work done on the box by F and $F_{friction} = 0$. None of this information is necessary, though, to solve the problem.



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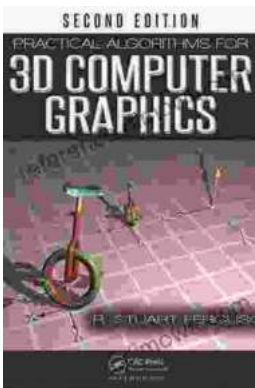
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