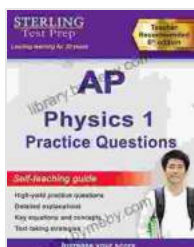


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by Sterling Test Prep

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Language : English

File size : 13208 KB

Screen Reader : Supported

Print length : 454 pages



The AP Physics Practice Questions book is the ultimate resource for students preparing for the AP Physics exam. This book contains over 1,000 practice questions that cover all topics on the exam, as well as detailed explanations for each question. With this book, you'll be able to:

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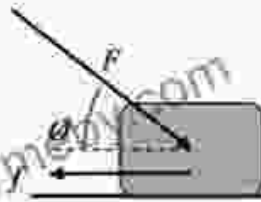
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Question:



A block of mass m is pushed across a rough surface by an applied force F , directed at an angle ϕ relative to the horizontal as shown above. The block experiences a friction force f in the opposite direction. What is the coefficient of friction between the block and the surface?

- a. $\frac{mg}{F \sin \phi}$
- b. $\frac{f}{F \sin \phi + mg}$
- c. $\frac{f}{mg}$
- d. $\frac{mg}{f}$
- e. $\frac{f}{F \sin \phi - mg}$

Answer:

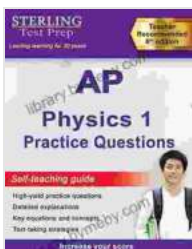
The correct answer is **b**. The key to finding the coefficient of friction μ is in calculating the correct Normal force acting on the block.

$$\sum F_y = ma$$

$$-F_{\text{applied } y} - F_g + F_{\text{Normal}} = 0$$

$$F_{\text{Normal}} = F \sin \phi + mg$$

$$\mu = \frac{F_{\text{friction}}}{F_{\text{Normal}}} = \frac{f}{F \sin \phi + mg}$$



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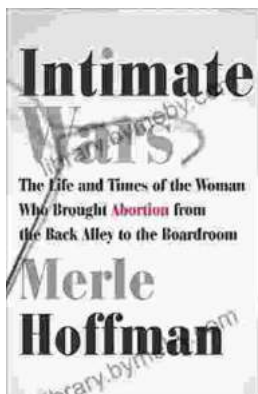
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