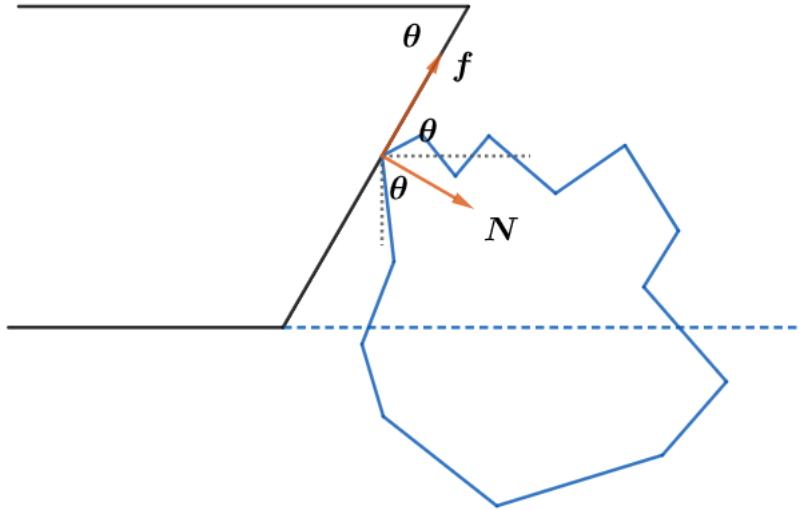


2021 F=ma Exam: Problem 22

Kevin S. Huang



The net force on the ice must be downward so we have

$$N \cos \theta > f_{\max} \sin \theta = \mu_s N \sin \theta$$
$$\cot \theta > \mu_s$$

Thus, the answer is $\boxed{\text{A}}$.