Abstract Submitted
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Sliding Downhill Horizontally ULRICH ZURCHER, APS — We study
the motion of object sliding on a rough incline plane. The coefficient of kinetic
friction between the surface and the object is such that the magnitude of the grav-
itational force along the incline F is equal to the magnitude of the kinetic friction
S. If the initial velocity of the object is along the incline, the object slides down
the incline with constant velocity. We study the case when the object in launched
in horizontal direction. We derive exact expressions for the terminal speed of the
object and the maximum horizontal displacement of the object.

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