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Solutions to Problems in Goldstein, Classical Mechanics, Second Edition Homer Reid August 22, 2000  
Chapter 1 Problem 1.1 A nucleus, originally at rest, decays radioactively by emitting an electron of momentum 1.73 MeV/c, and at right angles to the direction of the electron a neutrino with momentum 1.00 MeV/c.

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Solutions 171 The trajectory drawn with an angle of  $fJ = 45$  degrees ( $|z'| = 1$ ) and a tacking  $fJ \rightarrow -fJ$  at  $x = L/2$  has a total length  $LV2$  and a velocity greater than  $(wO - w)/2$ . The time along this path,  $Tv = 2LV2/(wO - w)$ , is obviously shorter than the time along the path with no tacking,  $T rv 2L(z'/L)/(wO - w) = 2z/(wO - w)$  . In realistic cases, for instance the America's Cup, one can see how

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â€¢Goldstein, Classical Mechanics, Sections 1.1 and 1.2 â€¢Symon, Mechanics, Sections 1.7, 2.1-2.6, 3.1-3.9, and 3.11-3.12 ... Newton's second law provides the equation of motion, which is simply the equation that ...

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