MAME: SUREYAS ENTOLIVE ID - OF TRAINING

04/06/2011 PHYS-130

5 th 5200 84

Mr.

-> V2

- in a muticing for rollarization (A)

7 My 1, 2020, + M2 V2 -1 M3 X0 - (M,+M2+M3) V2



=7 -5.1 x10,3 cos (45) + 7,3x 15.7= (5.1+7.3+4.2)

=7 = 37.14 + 114.61 = 16.6 V2

Ty = 4.60 m/s

The state of the

P. T. 00

(2) Consormation of manontum in it - mais -=7 -M/1, sino, + M2x0 + M3V3= (M,+M2+M3) Vy -> -9.1 ×10.3 sin(45°) -4.2 ×6.5 = 16.6 44 (Kelocity, 11 = J1,2+1,2 14/ = J(4,66)2+(-0,593)2 $|u| = \sqrt{21.7196 + 0.351649}$ 141= 4.7 mls direction : nontrainelle tom 0 = VH = 0, 993 V. 4,66 tom 0 = 0.1272 0 = 7.15°

Kinsta Grongy before collision

K.E.; = 121/12+ 12 12/2+ 12 13/32

K.E.; = 121/12+ 12 12/2+ 12 13/32

K.E.; = 121/12+ 12 12/2+ 12 13/32

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K.E.; = 121/12+ 12 13/32+ 12 13/32+ 12 13/32

K.E.; = 121/12+ 12 13/32+ 1 (b)

K.E. = > x5.1 x (10,3)2 + 1 x 7.3 x (15.7)2+ x4.2 又((,5)2

= 1 541,059 + 1799.377 + 177.45)

K. E; = 1258 943 J

, raisillas retja ppene siteriix K.E. = = (M,+M2+M3) 12

2 (9,1+7,3+4,2) x(4,9)2

K.E. = 183.347 J

: Trinetie emergy last 2 K.E., - K.E.

= 1258.943-183.347 = 1075.65