

TUTORIAL TEST 1

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Classical Mechanics - PHY263

Tutorial Test 1 - 6 August 2020

Time: 25 minutes

Total: 15 marks

1. A block of mass m_1 is pulled up an inclined plane by a second block of mass m_2 that is connected by a massless string to block 1 over a frictionless pulley. The inclined plane is raised to an angle θ above the horizontal level. There is a frictional force $f = \mu N$, with μ the coefficient of friction between block m_1 and the inclined plane and a normal force N is also exerted on it.



- (a) Write down the vector equation(s) of motion for the problem.

(2)

- (b) Using the appropriate component equations of the vector equation(s) in (a) together with a choice of coordinate system, find a general relation for the position of block m_1 as a function of time t .

(8)

Optics Semester Test Study Guide Answers

L Cohen



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