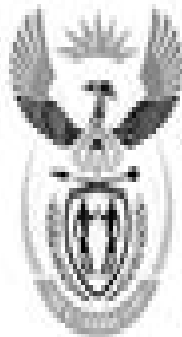


PHYSICAL SCIENCES P.1

MEMO-2024



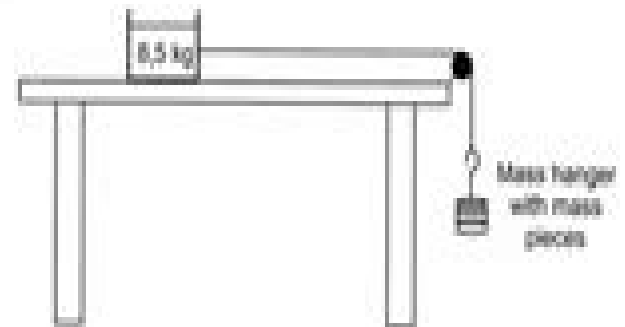
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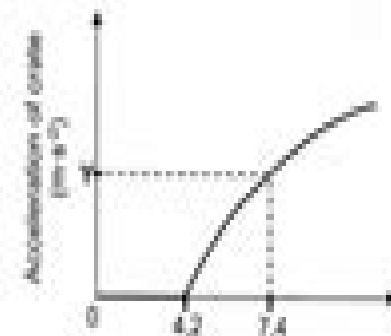
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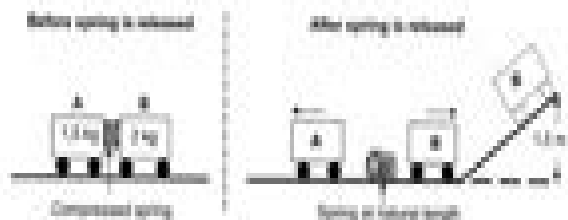
1 times by adding different masses to increase the hanging mass each time.
the effects of air friction.



data obtained were used to draw the sketch graph below.



length. The spring then falls to the ground.
Trolley A moves to the left, while trolley B moves to the right and then up a frictionless inclined plane, rising to a maximum vertical height of 1,5 m, as shown in the diagram below.



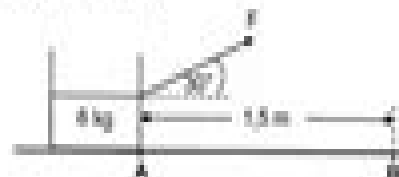
Ignore the rotational effects of the wheels.

- 6.1 Write down the principle of conservation of mechanical energy in words. (2)
- 6.2 Calculate the speed of trolley B at the bottom of the inclined plane. (4)
- 6.3 For the frequency that the spring takes to return to its natural length. (2)

(4 new pages.)

1 applied at an angle of 30° to the horizontal
ly at rest, as shown in the diagram below.

on of 10 N acts on the crate as it moves from rest at point A ab
point B. The distance between point A and point B is 1,5
at point B is 2 m s^{-1} .



is work done by a force.

of free-body diagram showing ALL the forces acting on the crate.

IF PRINCIPLES ONLY, calculate the magnitude of force F.

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Hongru Du



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Physical Science Under Microgravity: Experiments on Board the SJ-10 Recoverable Satellite Wenrui Hu, Qi Kang, 2019-10-16 This book presents the physical science experiments in a space microgravity environment conducted on board the SJ 10 recoverable satellite which was launched on April 6th 2016 and recovered on April 18th 2016 The experiments described were selected from 100 proposals from various institutions in China and around the world and have never previously been conducted in the respective fields They involve fluid physics and materials science and primarily investigate the kinetic properties of matter in a space microgravity environment The book provides a comprehensive review of these experiments as well as the mission's execution data collection and scientific outcomes

Nuclear Science Abstracts, 1972 **Treatise on Geophysics, Volume 10** Tilman Spohn, 2010-05-20 Planets and Moons covers topics relating to the physics of the major planetary bodies in the solar system starting with an introductory description of the solar system and collection of pertinent data continuing with a discussion of the early history of the planets and finishing with articles about planet dynamics thermal evolution of planets and satellites and descriptions of their magnetic fields and the processes that generate them In addition to providing a review on the solid planets and the satellites this volume addresses the interactions of solid surfaces and atmospheres as well as the roles of water and ice in shaping the surfaces of planetary bodies Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert

Directory of Engineering Document Sources, 1986 Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **U.S. Geological Survey Professional Paper**, 1984 **Bulletin of the Atomic Scientists**, 1992-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Collected Reprints, 1993 Outlook Alfred Emanuel Smith, Francis Walton, 1888 Evaluating Earthquake Hazards in the Los Angeles Region--an Earth-science Perspective Joseph I. Ziony, 1985 An integrated set of studies describing methods for evaluating geologically controlled earthquake hazards as a basis for reducing future losses

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