

# PHYSICAL SCIENCES P.1

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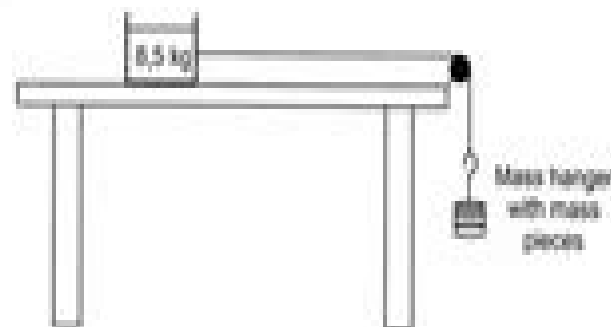
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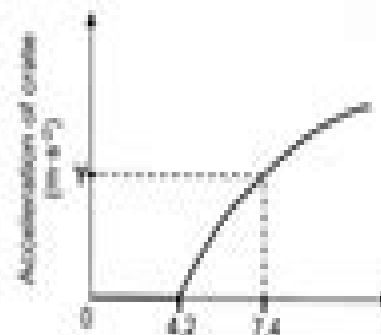
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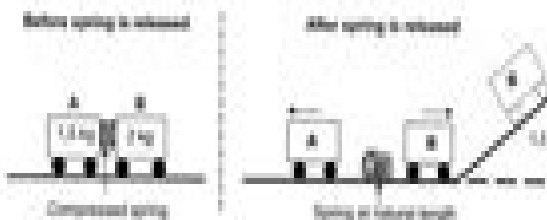
1 times by adding different masses to increase the hanging mass each time.  
the effects of air friction.



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.

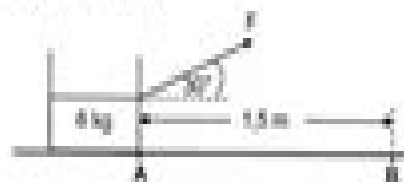


- 6.1 Write down the principle of conservation of mechanical energy in words. (2)
- 6.2 Calculate the speed of trolley B at the bottom of the inclined plane. (4)
- 6.3 For the hypothesis that the spring takes no time to return to its natural length.

(4 new pages.)

1 applied at an angle of  $30^\circ$  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  $2 \text{ m s}^{-1}$ .



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.

# 2014 Physical Science Pmemorandum November Grade 12

**M Woodhall**



## **2014 Physical Science Pmemorandum November Grade 12:**

### **Knowledge Discovery in Big Data from Astronomy and Earth Observation** Petr Skoda,Fathalrahman

Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants

### **Transactions on Computational Science XXIX** Marina L. Gavrilova,C.J. Kenneth

Tan,2017-03-11 This the 29th issue of the Transactions on Computational Science journal is comprised of seven full papers focusing on the area of secure communication Topics covered include weak radio signals efficient circuits multiple antenna sensing techniques modes of inter computer communication and fault types geometric meshes and big data processing in distributed environments

**Breaking Point** Rebecca Schwartz Greene,2023-01-03 WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II Breaking Point is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author s personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt s endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2 5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening s validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field and saw that combat itself not

predisposition precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected

Long-Range Dependent Processes: Theory and Applications Ming Li, Carlo Cattani, 2022-12-05 *Fractivism* Sara Ann Wylie, 2018-01-25 From flammable tap water and sick livestock to the recent onset of hundreds of earthquakes in Oklahoma the impact of fracking in the United States is far reaching and deeply felt In *Fractivism* Sara Ann Wylie traces the history of fracking and the ways scientists and everyday people are coming together to hold accountable an industry that has managed to evade regulation Beginning her story in Colorado Wylie shows how nonprofits landowners and community organizers are creating novel digital platforms and databases to track unconventional oil and gas well development and document fracking's environmental and human health impacts These platforms model alternative approaches for academic and grassroots engagement with the government and the fossil fuel industry A call to action *Fractivism* outlines a way forward for not just the fifteen million Americans who live within a mile of an unconventional oil or gas well but for the planet as a whole

**Resources in Education** , 1998 **Чипова війна** Кріс Міллер, 2024-08-15 Cancer, Radiation Therapy, and the Market Barbara Bridgman Perkins, 2017-08-16 Appraising cancer as a major medical market in the 2010s Wall Street investors placed their bets on single technology treatment facilities costing 100 300 million each Critics inside medicine called the widely publicized proton center boom crazy medicine and unsustainable public policy There was no valid evidence they claimed that proton beams were more effective than less costly alternatives But developers expected insurance to cover their centers staggeringly high costs and debts Was speculation like this new to health care *Cancer Radiation Therapy and the Market* shows how the radiation therapy specialty in the United States later called radiation oncology coevolved with its device industry throughout the twentieth century Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices initiated companies to manufacture the devices competitively and designed hospital and freestanding procedure units to utilize them In the process they incorporated market strategies into medical organization and practice Although palliative benefits and striking tumor reductions fueled hopes of curing cancer scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival This thoroughly documented and provocative inquiry concludes that public health policy needs to re evaluate market driven high tech medicine and build evidence based health care systems

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web figure 1 flyback converter schematic flyback converter has two signal semi periods ton and toff which are named after and controlled by the mosfet s switching states during ton the mosfet is in the on state and current flows from the input through the primary inductor to linearly charge the coupled inductor

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