

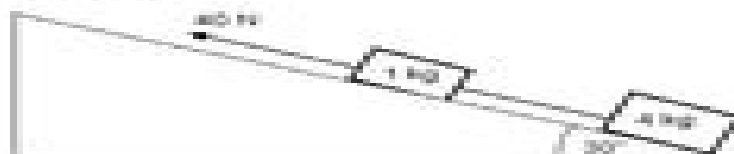
## PHYSICAL SCIENCES P1 REVISION DOCUMENT

### NEWTON'S LAWS

State the following laws

1. Newton's second law of motion
2. Newton's law of universal gravitation

#### QUESTION 2



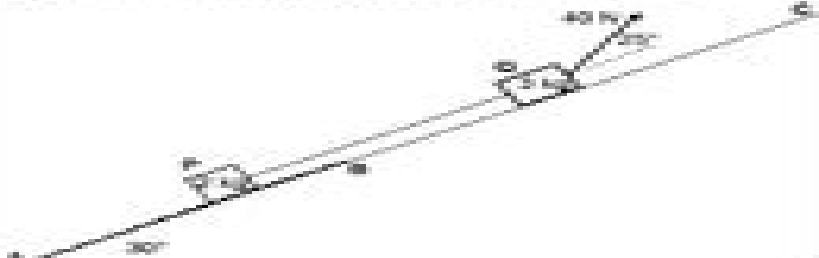
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

1. State Newton's third law of motion in words. (2)
2. Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
3. Calculate the magnitude of the:
  1. Kinetic frictional force between the 1 kg block and the surface (2)
  2. Tension in the string connecting the two blocks (5)

[14]

#### QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of  $30^\circ$  to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of  $25^\circ$  to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

1. State Newton's Second Law in words. (2)
2. Draw a labelled free-body diagram for block P. (4)
3. Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

4. If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

# Physical Science P1 2013 Memorandum

**Norman Abraham**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Norman Abraham.

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**Weighted Bergman Spaces Induced by Rapidly Increasing Weights** Jose Angel Pelaez,Jouni Rattya,2014-01-08 This monograph is devoted to the study of the weighted Bergman space  $A_{p,\omega}$  of the unit disc  $\mathbb{D}$  that is induced by a radial continuous weight  $\omega$  satisfying  $\lim_{r \rightarrow 1} \int_r^1 \omega(s) ds = 0$  Every such  $A_{p,\omega}$  lies between the Hardy space  $H_p$  and every classical weighted Bergman space  $A_{p,\alpha}$  Even if it is well known that  $H_p$  is the limit of  $A_{p,\alpha}$  as  $\alpha \rightarrow 1$  in many respects it is shown that  $A_{p,\omega}$  lies closer to  $H_p$  than any  $A_{p,\alpha}$  and that several finer function theoretic properties of  $A_{p,\alpha}$  do not carry over to  $A_{p,\omega}$

**GPS** Guochang Xu,Yan Xu,2016-07-29 This reference and handbook describes theory algorithms and applications of the Global Positioning System GPS Glonass Galileo Compass It is primarily based on source code descriptions of the KSGsoft program developed at the GFZ in Potsdam The theory and algorithms are extended and verified for a new development of a multi functional GPS Galileo software Besides the concepts such as the unified GPS data processing method the diagonalisation algorithm the adaptive Kalman filter the general ambiguity search criteria and the algebraic solution of variation equation reported in the first edition the equivalence theorem of the GPS algorithms the independent parameterisation method and the alternative solar radiation model reported in the second edition the modernisation of the GNSS system the new development of the theory and algorithms and research in broad applications are supplemented in this new edition Mathematically rigorous the book begins with the introduction the basics of coordinate and time systems and satellite orbits as well as GPS observables and deals with topics such as physical influences observation equations and their parameterisation adjustment and filtering ambiguity resolution software development and data processing and the determination of perturbed orbits

**The Case for Pandora** James Essig,Steve McCarter,2016-12-19 This book is about building craft for space travel a space travel that is not in the distant future but in the immediate future There is no question that we have the technology to build and power large craft capable of traversing

the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means      Introduction to the Practice of Statistics David S. Moore, George P.

McCabe, Bruce A. Craig, 2014-02-07 With this updated new edition the market leading Introduction to the Practice of Statistics IPS remains unmatched in its ability to show how statisticians actually work Its focus on data analysis and critical thinking step by step pedagogy and applications in a variety of professions and disciplines make it exceptionally engaging to students learning core statistical ideas      Physics of Plasma-Wall Interactions in Controlled Fusion D. E. Post, R.

Behrisch, 2013-11-21 Controlled thermonuclear fusion is one of the possible candidates for long term energy sources which will be indispensable for our highly technological society However the physics and technology of controlled fusion are extremely complex and still require a great deal of research and development before fusion can be a practical energy source For producing energy via controlled fusion a deuterium tritium gas has to be heated to temperatures of a few 100 Million c corresponding to about 10 keV For net energy gain this hot plasma has to be confined at a certain density for a certain time One promising scheme to confine such a plasma is the use of intense magnetic fields However the plasma diffuses out of the confining magnetic surfaces and impinges on the surrounding vessel walls which isolate the plasma from the surrounding air Because of this plasma wall interaction particles from the plasma are lost to the walls by implantation and are partially reemitted into the plasma In addition wall atoms are released and can enter the plasma These wall atoms or impurities can deteriorate the plasma performance due to enhanced energy losses through radiation and an increase of the required magnetic pressure or a dilution of the fuel in the plasma Finally the impact of the plasma and energy on the wall can modify and deteriorate the thermal and mechanical properties of the vessel walls      **Thin Film Solar Cells** K. L. Chopra, S. R.

Das, 2013-11-11 You O Sun are the eye of the world You are the soul of all embodied beings You are the source of all creatures You are the discipline of all engaged in work Translated from Mahabharata 3rd Century BC Today energy is the lifeline and status symbol of civilized societies All nations have therefore embarked upon Research and Development programs of varying magnitudes to explore and effectively utilize renewable sources of energy Albeit a low grade energy with large temporal and spatial variations solar energy is abundant cheap clean and renewable and thus presents a very attractive alternative source The direct conversion of solar energy to electricity photovoltaic effect via devices called solar cells has already become an established frontier area of science and technology Born out of necessity for remote area applications the

first commercially manufactured solar cells single crystal silicon and thin film CdS Cu<sub>2</sub>S were available well over 20 years ago Indeed all space vehicles today are powered by silicon solar cells But large scale terrestrial applications of solar cells still await major breakthroughs in terms of discovering new and radical concepts in solar cell device structures utilizing relatively more abundant cheap and even exotic materials and inventing simpler and less energy intensive fabrication processes No doubt this extraordinary challenge in R D has led to a virtual explosion of activities in the field of photovoltaics in the last several years

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