

4.2 Information sheets – Paper 1 (Physics)

DATA FOR PHYSICAL SCIENCES: GRADE 12
PAPER 1 (PHYSICS)

TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant	G	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Speed of light in a vacuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant	h	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron	e	$-1,6 \times 10^{-19} \text{ C}$
Electron mass	m_e	$9,11 \times 10^{-31} \text{ kg}$
Mass of the Earth	M	$5,98 \times 10^{24} \text{ kg}$
Radius of the Earth	R_E	$6,38 \times 10^6 \text{ m}$

TABLE 2: FORMULAE

MOTION

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$ OR $\Delta y = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$ OR $v_f^2 = v_i^2 + 2a\Delta y$	$\Delta x = \left(\frac{v_i + v_f}{2}\right)\Delta t$ OR $\Delta y = \left(\frac{v_i + v_f}{2}\right)\Delta t$

FORCE

$F_{\text{net}} = ma$	$p = mv$
$F_{\text{fr}}^{\text{max}} = \mu_k N$	$F_{\text{fr}} = \mu_k N$
$F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$

WORK, ENERGY AND POWER

$W = F\Delta x \cos\theta$	$U = mgh$ OR $E_p = mgh$
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta K$ OR $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

Physical Science June Paper 1 2014

Ying Liu



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The Trouble with Doctors: Dr. John Anderson, 2022 This book arose from the authors knowledge of a small number of doctors who were not behaving in a professional or proper manner As he read about them he found he was astonished at the extent of some offenders Any human being can have flaws in their character personality disorders or mental illnesses what if that person is your doctor This book takes the reader on a journey from the colorful life of Geoffrey Edelsten through Medawar s The Strange Case of the Spotted Mice a fertility specialist who used his own sperm to impregnate over 50 women without their knowledge to the lasting and devastating effects of the MMR vaccine debacle The author suggests that a test needs to be devised to detect character flaws such as greed before they harm innocent people through fraud and deceit As much a reference book as it is a celebration of the brave whistleblower and witty commentary on human nature capturing the imagination leading the reader to wonder why people make the decisions they do Anderson himself had a colorful life and a brilliant career leaving an immeasurable legacy to medicine His wish was that this book would prompt change leading to enhanced integrity in the medical and scientific world

Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems William Wolfgang Arrasmith, 2025-06-30 There has been a lot of innovation in systems engineering and some fundamental advances in the field of optics imaging lasers and photonics that warrant attention This volume focuses on applications tools and techniques of systems engineering related topics from government industrial and academic settings such as development and operations DevOps agile methods and the concept of the digital twin Handbook of Systems Engineering and Analysis of Electro Optical and Infrared Systems Applications Tools and Techniques offers more information on the application of decision and risk analysis and statistical methods in systems engineering such as design of experiments DOX methods including statistical process control hypothesis testing analysis of variance blocking 2k factorial analysis and regression analysis It includes new material using model based systems engineering and systems architecture methods in a system level design application The integration of recent high speed atmospheric turbulence research results in the optical technical examples and case studies to illustrate the new developments is also included A presentation of new optical technical materials for adaptive optics AO and atmospheric turbulence compensation ATC systems that are based on illumination from passive sources natural light or active sources coherent light like from lasers provides the technical focus for the systems engineering methods and techniques Chapter 13 focuses on the technical aspects of the design process and uses the systems level design as an illustration In addition to covering lifecycle cost estimation methods and applying them to an integrated case study that is used to illustrate important concepts and techniques throughout this work the final section brings everything together in terms of technical cost and schedule performance Because this volume blends modern day systems engineering methods with detailed optical systems analysis and applies these methodologies to EO IR systems this new edition is an excellent text for professionals in STEM

disciplines that work with optical or infrared systems It s also a great practical reference text for the practicing engineer and a solid educational text for graduate level systems engineering engineering science and technology students

Systems Engineering and Analysis of Electro-Optical and Infrared Systems William Wolfgang Arrasmith,2018-10-08 Electro optical and infrared systems are fundamental in the military medical commercial industrial and private sectors Systems Engineering and Analysis of Electro Optical and Infrared Systems integrates solid fundamental systems engineering principles methods and techniques with the technical focus of contemporary electro optical and infrared optics imaging and detection methodologies and systems The book provides a running case study throughout that illustrates concepts and applies topics learned It explores the benefits of a solid systems engineering oriented approach focused on electro optical and infrared systems This book covers fundamental systems engineering principles as applied to optical systems demonstrating how modern day systems engineering methods tools and techniques can help you to optimally develop support and dispose of complex optical systems It introduces contemporary systems development paradigms such as model based systems engineering agile development enterprise architecture methods systems of systems family of systems rapid prototyping and more It focuses on the connection between the high level systems engineering methodologies and detailed optical analytical methods to analyze and understand optical systems performance capabilities Organized into three distinct sections the book covers modern fundamental and general systems engineering principles methods and techniques needed throughout an optical system s development lifecycle SDLC optical systems building blocks that provide necessary optical systems analysis methods techniques and technical fundamentals and an integrated case study that unites these two areas It provides enough theory analytical content and technical depth that you will be able to analyze optical systems from both a systems and technical perspective

Environmental Protection and Disaster Risks Nina Dobrinkova,Georgi Gadzhev,2021-06-12 This book presents research findings and conclusions that has been developed as algorithms or intelligent new methods solving problems in the fields of air pollution climate and health natural hazards and risks water resources human activities and management and informatics remote sensing high performance computing and GIS for environmental monitoring and management Environmental protection and disaster risk topics are challenging fields that scientific world is trying to address as much as it can Earthquakes floods fires droughts blizzards dust storms natural releases of toxic gases and liquids diseases and other environmental variations affect hundreds of millions of people each year Many disaster events are triggered by human activities Dealing with these problems will require systems thinking and integrating multidisciplinary science Actions in these directions are taken more and more in the recent years by political bodies NGOs and scientific groups trying to find sustainable solutions for the future generations Every point of view matter when it comes to our global home The Planet Earth

What We Think About When We Try Not To Think About Global Warming Per Espen Stoknes,2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that

overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher s description

SOUVENIR of 3rd International Science Congress ISC-2013 Prof. Dipak Sharma, International Science Congress Association organized 3rd International Science Congress ISC 2013 with Innovation with Global Responsibility as its Focal Theme ISC 2013 is divided in 20 sections A total number of 900 Research Papers and 1000 registrations from 36 countries all over the world have been received They are mainly from India Iran Sudan Iraq South Africa Phillipines Pakistan Nighana Erode Czech Republic Bangladesh Swaziland Jordan USA Thailand Japan Malaysia Kazakhstan UK Colombia Nepal Italy Bulgariya Cameroun France Greece Kazakhstan Korea Lithuania Nigeria Poland Romania Slovakia Ukraine Venezuela and Turkey

Ethical Innovation in Business and the Economy Georges Enderle, Patrick E. Murphy, 2015-12-18 Innovation has become a buzzword that promises dramatic changes in almost every field of business Absent from this attention is a serious discussion of the ethical sides of dramatic change To address this editors Georges Enderle and Patrick E Murphy gather a team of experts to fully examine the ethics of innovation within business and the economy in this standout addition to the Studies in TransAtlantic Business Ethics series

Hypothetical Spacecraft and Interstellar Travel Ezekiel Nygren, 2015-02-28 Hypothetical Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft

5th World Congress on Disaster Management: Volume II S. Ananda Babu, 2022-12-02 World Congress on Disaster Management WCDM brings researchers policy makers and practitioners from around the world in the same platform to discuss various challenging issues of disaster risk management enhance understanding of risks and advance actions for reducing risks and building resilience to disasters The fifth WCDM deliberates on three critical issues that pose the most serious challenges as well as hold the best possible promise of building resilience to disasters These are Technology Finance and Capacity WCDM has emerged as the largest global conference on disaster management outside the UN system The fifth WCDM was attended by more than 2500 scientists professionals policy makers and practitioners all around the world despite the prevalence of pandemic

Green Savings Marilyn A. Brown, Yu Wang, 2015-09-29 This landmark work lauds the benefits of decreased energy consumption investigating its relationship to public policy and analyzing its potential billion dollar benefits to the U S economy U S

consumers tend to use energy indiscriminately something they may no longer be able to do with impunity This game changing book asserts that reducing energy consumption should be a frontline strategy to address global climate change threats to energy security and the challenge of grid reliability The book supports two bold arguments that policies motivating greater investment in high energy efficiency should be a priority and that energy efficiency can help the nation in times of crisis To make their case for the necessity of prioritizing demand reduction the authors examine the policies and markets operating in a number of leading cities states and nations across the globe to uncover the keys to their success These examples show how demand side strategies can significantly reduce pollution cut costs and make the electric grid more resilient The authors explain why these technologies are not widely adopted and assess the potential savings they can produce The book will be an eye opener for policymakers energy professionals and the public as it demonstrates how cost effective demand reduction policies can improve air quality strengthen electricity markets and generate jobs

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