

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 $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

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AR 600-20 11/06/2014 ARMY COMMAND POLICY , Survival Ebooks Us Department Of Defense, www.survivalebooks.com, Department of Defense, Delene Kvasnicka, United States Government US Army, United States Army, Department of the Army, U. S. Army, Army, DOD, The United States Army, AR 600 20 11 06 2014 ARMY COMMAND POLICY Survival Ebooks Pursuing quality education in Physical and Rehabilitation Medicine Francesca Gimigliano, Maria Gabriella Ceravolo, Jorge Lains, 2023-08-15 High quality rehabilitation care represents a constitutive element of health systems worldwide The harmonization of staff education both at the undergraduate and postgraduate level is a key element for ensuring the highest standard of rehabilitation care International bodies like the UEMS Board for Physical and Rehabilitation Medicine PRM or the International Society for PRM have already delivered regulatory documents setting standards in postgraduate PRM education The implementation of such rules is to be validated worldwide with special attention to low and middle income countries This Research Topic aims to stimulate awareness in the scientific community especially for those involved in postgraduate education and policy making decisions It will highlight the need for developing competency based education as a powerful mechanism to align education and training with health system priorities This holds particular value for resource limited countries where the knowledge and skills of rehabilitation doctors need to reflect not only the population s health profile but also the strengths and weaknesses e g workforce gaps and maldistributions of the health system This goal can be achieved through sharing experiences between those who have engaged themselves in the process of program development curriculum design and competency based education in rehabilitation Over the last 25 years the number of papers addressing the issue of residency education in PRM has exponentially increased testifying the interest towards the role of rehabilitation and more specifically of the PRM doctors as leaders of the rehabilitation team *Scientific and Technical Aerospace Reports* ,1967 **Applied Health Economics for Public Health Practice and Research** Rhiannon Tudor Edwards, Emma McIntosh, 2019-03-14 In today s world of scare resources determining the optimal allocation of funds to preventive health care interventions PHIs is a challenge The upfront investments needed must be viewed as long term projects the benefits of which we will experience in the future The long term positive change to PHIs from economic investment can be seen across multiple sectors such as health care education employment and beyond Applied Health Economics for Public Health Practice and Research is the fifth in the series of Handbooks in Health Economic Evaluation It presents new research on health economics methodology and application to the evaluation of public health interventions Looking at traditional as well as novel methods of economic evaluation the book covers the history of economics of public health and the economic rationale for government investment in prevention In addition it looks at principles of health economics evidence synthesis key methods of economic evaluation with accompanying case studies and much more Looking to the future Applied Health Economics for Public Health Practice and Research presents priorities for research in the field

of public health economics It acknowledges the role played by natural environment in promoting better health and the place of genetics environment and socioeconomic status in determining population health Ideal for health economists public health researchers local government workers health care professionals and those responsible for health policy development Applied Health Economics for Public Health Practice and Research is an important contribution to the economic discussion of public health and resource allocation *The Oxford Handbook of Ethics of AI* Markus D. Dubber, Frank Pasquale, Sunit

Das, 2020-06-30 This volume tackles a quickly evolving field of inquiry mapping the existing discourse as part of a general attempt to place current developments in historical context at the same time breaking new ground in taking on novel subjects and pursuing fresh approaches The term AI is used to refer to a broad range of phenomena from machine learning and data mining to artificial general intelligence The recent advent of more sophisticated AI systems which function with partial or full autonomy and are capable of tasks which require learning and intelligence presents difficult ethical questions and has drawn concerns from many quarters about individual and societal welfare democratic decision making moral agency and the prevention of harm This work ranges from explorations of normative constraints on specific applications of machine learning algorithms today in everyday medical practice for instance to reflections on the potential status of AI as a form of consciousness with attendant rights and duties and more generally still on the conceptual terms and frameworks necessarily to understand tasks requiring intelligence whether human or AI **Introduction to Teaching** Gene E. Hall, Linda F.

Quinn, Donna M. Gollnick, 2018-11-29 An ideal introductory text for aspiring teachers Introduction to Teaching Making a Difference in Student Learning is grounded in the realities and complexities found in today's schools Acclaimed authors Gene E Hall Linda F Quinn and Donna M Gollnick thoroughly prepare readers to make a difference as teachers presenting firsthand stories and evidence based practices while offering a student centered approach to learning The authors focus on how to address one of the biggest challenges facing many of today's schools ensuring that all students are learning and help teachers prioritize student learning as their primary focus From true to life challenges that future teachers will face such as high stakes testing reduced funding low retention and Common Core State Standards to the inspiration and joy they will experience throughout their teaching careers the Third Edition paints an importantly authentic picture of the real life of a teacher *ICONS 2020* Arif Zainudin, Yoga Prihatin, Suyono, Purwo Susongko, Taufiqullah, 2021-01-26 Proceedings of the

First International Conference on Social Science Humanities Education and Society Development ICONS 2020 30 November 2020 Tegal Central Java Indonesia ICONS is an International Conference hosted by Universitas Pancasakti Tegal This Conference is arranged to become an annual conference making room for scholars and practitioners in the area of economic socio cultural legal educational environmental aspects as well as a combination of all these aspects *Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014)* Ershi Qi, Qin Su, Jiang Shen, Feng Wu, Runliang Dou, 2015-01-19 The 5th International Asia Conference on Industrial Engineering and Management

Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Xi'an Jiaotong University. The conference aims to share and disseminate information on the most recent and relevant researches, theories and practices in industrial and system engineering to promote their development and application in university and enterprises.

Dictionary of Concrete Technology Natt Makul, 2025-06-04. The Dictionary of Concrete Technology is a thorough resource encapsulating the progressions in concrete technology which connects traditional methodologies with contemporary innovations. With over 1,000 meticulously selected terminologies, it provides clear definitions, context and cross references catering to professionals, students and researchers. This dictionary addresses the necessity for an updated lexicon to keep pace with the swift advancements in materials science and civil engineering. Compiled through years of collaboration with scholars, engineers and industry specialists, it ensures precision and relevance. Organized alphabetically with detailed elucidations, the dictionary is straightforward to navigate, supported by an extensive index and references for further exploration. Focusing on both current methodologies and emerging trends such as sustainability and digital construction, it offers insights into the future of the discipline. Designed as an essential instrument, it continues evolving with updates supporting its users' quest for knowledge and excellence.

Textbook of Critical Care: First South Asia Edition - E-Book Jean-Louis Vincent, Edward Abraham, Frederick A. Moore, Patrick Kochanek, Mitchell P. Fink, 2017-03-27. Comprehensive, concise and readable. *Textbook of Critical Care: First South Asia Edition* brings you fully up to date with the effective management of critically ill patients, providing the evidence-based guidance you need to overcome a full range of practice challenges. Drs Jean-Louis Vincent, Edward Abraham, Frederick A. Moore, Patrick Kochanek and Mitchell P. Fink are joined by other international experts who offer a multidisciplinary approach to critical care, sharing expertise in anesthesia, surgery, pulmonary medicine and pediatrics. This highly acclaimed text offers ICU clinicians a new understanding of the pathophysiology of critical illness and new therapeutic approaches to critical care. Features a wealth of tables, boxes, algorithms, diagnostic images and key points that clarify important concepts and streamline complex information for quick reference.

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CONVASH 2019 Kundharu Saddhono ,Deny Tri Ardianto,Krichkanok Sudasna,Hasnul Jamal B Saidon,Khwanrat Chinda,Ahamad Tarmizi bin Azizan,2020-08-31 The 1st Conference of Visual Art Design and Social Humanities CONVASH 2019 is a seminar in the fields of art design and humanities held on November 2 2019 by the Faculty of Fine Arts and Design FSRD Universitas Sebelas Maret in Surakarta Indonesia Since its establishment as a Faculty 5 years ago The Faculty of Fine Arts and Designs has conducted 4 international conferences The 1st CONVASH 2019 is our international conference new brand and we have a commitment to hold CONVASH annually Conference of Visual Art Design and Social Humanities CONVASH 2019 is a tangible manifestation of FSRD s efforts to contribute to science and improve publication quality on the international level This event is expected to bring about collaboration scientific transfer and publications that can contribute to the scientific fields of arts design and humanities The conference aims to facilitate research presentations and knowledge exchange in art design technology and social humanities as well as create academic networks among students lecturers and researchers in the related fields Further this conference will bring opportunities to learn together to develop quality research in various fields expand the collaboration networks among universities and industries and become a forum to disseminate research and knowledge to a wider audience The committee received more than 130 papers from the participants and based on the results of the reviews only 96 papers were declared qualified to be presented at the seminar and subsequently published in the proceedings of CONVASH 2019 Finally the committee congratulates and expresses gratitude to the selected participants for the participation and paper publication in the proceeding of CONVASH 2019 The committee would also like to thank all parties who have supported and actively participated for the success of this event Hopefully this Proceeding can be used as a reference for technological development and learning improvement in the fields of education social arts and humanities Cumulated Index Medicus ,1977 **Integrated Life-Cycle and Risk Assessment for Industrial**

Processes and Products Guido Sonnemann,Michael Tsang,Marta Schuhmacher,2018-10-10 Life cycle assessment is a methodology used to evaluate the environmental impacts of a product process or service during its life cycle and risk assessment is a tool to evaluate potential hazards to human health and the environment introduced by pollutant emissions The United Nations Sustainable Development Goals call for among other objectives responsible consumption and production by decoupling environmental resource use and environmental impacts from economic growth and human well being Life

cycle assessment and risk assessment are both analytical system approaches that allow scientists and other decision makers to address these issues and objectives according to the current understanding of environmental mechanisms This book is the first attempt to illustrate the existing interfaces between life cycle assessment and risk assessment and to indicate options for further integration of both tools The second edition Focuses on sustainability Considers new developments in life cycle assessment and environmental risk assessment over the last ten years at the international level Introduces broader concepts and discussions on integrative versus the complementary use of life cycle and risk assessments Extends the scope of integrated life cycle and risk assessments to critical raw materials Includes more case studies and discusses engineered nanomaterials Featuring contributions from leading experts Integrated Life Cycle and Risk Assessment for Industrial Processes and Products is a great reference for graduate students and professionals in environmental management and intends to catalyze communication between life cycle assessment and risk assessment experts and scientists in academia industry and governmental agencies The practical format of the book illustrated with flowcharts examples exercises and concrete applications makes it a useful manual for analyzing situations and making decisions

Lifespan Development

Michele Hoffnung,Robert J. Hoffnung,Kelvin L. Seifert,Alison Hine,Lynn Ward,Cat Pause,Karen Swabey,Karen Yates,Rosanne Burton Smith,2015-08-17 Lifespan Development Third Australasian edition explores human physical cognitive and social development within an Australian and New Zealand context Building on the successful first and second editions the resource s comprehensive theory coverage includes the latest local and international research in this ever evolving field and is perfectly complemented by numerous physical and mental health applications within local psychological allied health and educational settings This edition includes enhanced coverage of developmental theories and increased integrated coverage of cross cultural and Indigenous issues unique to the multicultural societies of Australia and New Zealand It is an ideal resource offering for undergraduate students in both countries in order to enhance understanding of human development from conception through to the end of life

Canadian Almanac & Directory, 2014 Tannys Williams,2013-10 The Canadian Almanac Directory is the most complete source of Canadian information available cultural professional and financial institutions legislative governmental judicial and educational organizations Canada s authoritative sourcebook for al

Engineering Record, Building Record and Sanitary Engineer ,1887 *Engineering & Building Record and the Sanitary Engineer* ,1887 **The Sanitary Engineer and Construction Record** ,1887

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