

GRADE 12 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane
 B Ethanol and propanoic acid
 C Ethanol and propanal
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of electrons in the outer shell.
 B A constant number of protons in the nucleus.
 C An element that undergoes a particular chemical reaction.
 D An element that forms a particular compound.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of gravity.
 B An object in free fall under the influence of gravity and air resistance.
 C An object in free fall under the influence of gravity and air resistance.
 D An object in free fall under the influence of gravity and air resistance.
- 1.4 The inertia of an object...
- A is measured by its mass.
 B is the resistance to change in its state of motion.
 C is the resistance to change in its state of motion.
 D is the resistance to change in its state of motion.

- 1.5 An astronaut has a weight E_E on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $4r$
 D $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.

[14]

QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound A and the name of the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:
 2.3.1 IUPAC name of compound B. (2)
 2.3.2 IUPAC name of compound C. (2)

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**Leslie D. Leve, Philip Andrew
Fisher, Kristen Mackiewicz
Seghete, Emily E. Tanner-
Smith, Amanda M. Griffin, Carly
Champagne, Elisabeth Conradt**

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Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations Gangwei Wang,Xiangpeng Xin ,Samir A. El-Tantawy,2024-08-13 Nonlinear problems originating from applied science that is closely related to practices contain rich and extensive content It makes the corresponding nonlinear models also complex and diverse Due to the intricacy and contingency of nonlinear problems unified mathematical methods still remain far and few between In this regard the comprehensive use of symmetric methods along with other mathematical methods becomes an effective option to solve nonlinear problems

Communication Technology Update and Fundamentals August E. Grant,Jennifer H. Meadows,2016-11-03 Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed grown and converged as well as what s in store for the future The 15th edition is completely updated reflecting the changes that have swept the communication industries The first five chapters offer the communication technology fundamentals including the ecosystem the history and structure then delves into each of about two dozen technologies including mass media computers consumer electronics and networking technologies Each chapter is written by experts who provide snapshots of the state of each individual field Together these updates provide a broad overview of these industries as well as the role communication technologies play in our everyday lives In addition to substantial updates to each chapter the 15th edition includes First ever chapters on Big Data and the Internet of Things Updated user data in every chapter Projections of what each technology will become by 2031 Suggestions on how to get a job working with the technologies discussed The companion website www.tfi.com/ctu offers updated information on the technologies covered in this text as well as links to other resources

Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology Poramate Manoonpong,Christian Tetzlaff,2018-10-11 How can neural and morphological computations be effectively combined and realized in embodied closed loop systems e g robots such that they can become more like living creatures in their level of performance Understanding this will lead to new technologies and a variety of applications To tackle this research question here we bring together experts from different fields including Biology Computational Neuroscience Robotics and Artificial Intelligence to share their recent findings and ideas and to update our research community This eBook collects 17 cutting edge research articles covering neural and morphological computations as well as the transfer of results to real world applications like prosthesis and orthosis control and neuromorphic hardware implementation

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1977

Hamiltonian Perturbation Solutions for Spacecraft Orbit Prediction Martín Lara,2021-05-10 Analytical solutions to the orbital motion of celestial objects have been nowadays mostly replaced by numerical solutions but they are still irreplaceable whenever speed is to be preferred to accuracy or to simplify a dynamical model In this book the most common orbital perturbations problems

are discussed according to the Lie transforms method which is the de facto standard in analytical orbital motion calculations Due to an oversight an error slipped in Section 4 1 of the book where it is implicitly assumed the case of the Kepler problem The following text should replace Sections 4 1 and 4 2 of the book Cross references may be affected with the new writing In particular former crossed references to Eq 4 3 should now point to current Eq 4 12 Please find the Erratum below

November 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts, 2019-10-21 **Applied**

Physics, System Science and Computers III Klimis Ntalianis, George Vachtsevanos, Pierre Borne, Anca Croitoru, 2019-06-27 This book reports on advanced theories and methods in three related fields of research applied physics system science and computers The first part covers applied physics topics such as lasers and accelerators fluid dynamics optics and spectroscopy among others It also addresses astrophysics security and medical and biological physics The second part focuses on advances in computers such as those in the area of social networks games internet of things deep learning models and more The third part is especially related to systems science covering swarm intelligence smart cities complexity and more Advances in and application of computer communication artificial intelligence data analysis simulation and modeling are also addressed The book offers a collection of contributions presented at the 3rd International Conference on Applied Physics System Science and Computers APSAC held in Dubrovnik Croatia on September 26 28 2018 Besides presenting new methods it is also intended to promote collaborations between different communities working on related topics at the interface between physics computer science and engineering **Lost circulation control during drilling**

and completion in complex formations Chong Lin, Arash Dahi Taleghani, Zhenjiang You, Chengyuan Xu, 2023-10-30

Reeds Introductions: Physics Wave Concepts for Marine Engineering Applications Christopher

Lavers, 2017-03-09 Reeds Introductions Physics Wave Concepts for Marine Engineering Applications covers the fundamental theoretical maritime physics concepts which underpin electromagnetic wave and sonar principles as developed in most maritime related courses whether Naval Coastguard or Merchant Marine engineering For these reasons it is vital that maritime users have a basic understanding of the concepts upon which many essential modern sea going sensors and communications devices now operate Knowledge regarding electromagnetic waves and electromagnetic devices is an established merchant navy sea service requirement particularly for the Standards in Training and Certification in Watchkeeping STCW95 qualification in various Maritime Coastguard Agency exams e g Marine Electrotechnology as Chief Engineer and Second Engineer as mandated by the UK Department for Transport This short introductory book is written as simply as possible to support growing numbers of overseas students for whom English is not their first language This volume provides a comprehensive study of maritime physics principles and provides a firm foundation prior to reading and studying of the following Reeds Marine Engineering series Vols 1 3 6 7 14 and 15 Students having read this easy to read volume will be better prepared for the more in depth study of the other volumes listed **Canadian Journal of Physics** , 2015

Advances in Mathematical Economics Volume 19 Shigeo Kusuoka,Toru Maruyama,2015-04-30 The series is designed to bring together those mathematicians who are seriously interested in getting new challenging stimuli from economic theories with those economists who are seeking effective mathematical tools for their research A lot of economic problems can be formulated as constrained optimizations and equilibration of their solutions Various mathematical theories have been supplying economists with indispensable machineries for these problems arising in economic theory Conversely mathematicians have been stimulated by various mathematical difficulties raised by economic theories

Hybrid Solutions for the Modelling of Complex Environmental Systems Christian E. Vincenot,Stefano Mazzoleni,Lael Parrott,2017-01-11 Systems studied in environmental science due to their structure and the heterogeneity of the entities composing them often exhibit complex dynamics that can only be captured by hybrid modeling approaches While several concurrent definitions of hybrid modeling can be found in the literature it is defined here broadly as the approach consisting in coupling existing modelling paradigms to achieve a more accurate or efficient representation of systems The need for hybrid models generally arises from the necessity to overcome the limitation of a single modeling technique in terms of structural flexibility capabilities or computational efficiency This book brings together experts in the field of hybrid modelling to demonstrate how this approach can address the challenge of representing the complexity of natural systems Chapters cover applied examples as well as modeling methodology

Analytic Research Foundations for the Next-Generation Electric Grid National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Analytical Research Foundations for the Next-Generation Electric Grid,2016-05-15 Electricity is the lifeblood of modern society and for the vast majority of people that electricity is obtained from large interconnected power grids However the grid that was developed in the 20th century and the incremental improvements made since then including its underlying analytic foundations is no longer adequate to completely meet the needs of the 21st century The next generation electric grid must be more flexible and resilient While fossil fuels will have their place for decades to come the grid of the future will need to accommodate a wider mix of more intermittent generating sources such as wind and distributed solar photovoltaics Achieving this grid of the future will require effort on several fronts There is a need for continued shorter term engineering research and development building on the existing analytic foundations for the grid But there is also a need for more fundamental research to expand these analytic foundations Analytic Research Foundations for the Next Generation Electric Grid provide guidance on the longer term critical areas for research in mathematical and computational sciences that is needed for the next generation grid It offers recommendations that are designed to help direct future research as the grid evolves and to give the nation s research and development infrastructure the tools it needs to effectively develop test and use this research

Cyber-Physical Systems Danda B. Rawat,Joel J.P.C. Rodrigues,Ivan Stojmenovic,2015-10-28 Although comprehensive knowledge of cyber physical systems CPS is becoming a

must for researchers practitioners system designers policy makers system managers and administrators there has been a need for a comprehensive and up to date source of research and information on cyber physical systems This book fills that need Cyber Physical Syst

Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two National Academies of Sciences, Engineering, and Medicine,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Assessment of Technologies and Approaches for Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles, Phase Two,2020-05-15 Medium and heavy duty trucks motor coaches and transit buses collectively medium and heavy duty vehicles or MHDVs are used in every sector of the economy The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years This study is a follow on to the National Research Council s 2010 report Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs On September 15 2011 NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy Duty National Program to reduce greenhouse gas emissions and fuel consumption for on road medium and heavy duty vehicles As NHTSA and EPA began working on a second round of standards the National Academies issued another report Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium and Heavy Duty Vehicles Phase Two First Report providing recommendations for the Phase II standards This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade

Deployment and Usage Guide for Running AI Workloads on Red Hat OpenShift and NVIDIA DGX Systems with IBM Spectrum Scale Simon Lorenz,Gero Schmidt,Thomas Schoenemeyer,IBM Redbooks,2020-11-30 This IBM Redpaper publication describes the architecture installation procedure and results for running a typical training application that works on an automotive data set in an orchestrated and secured environment that provides horizontal scalability of GPU resources across physical node boundaries for deep neural network DNN workloads This paper is mostly relevant for systems engineers system administrators or system architects that are responsible for data center infrastructure management and typical day to day operations such as system monitoring operational control asset management and security audits This paper also describes IBM Spectrum LSF as a workload manager and IBM Spectrum Discover as a metadata search engine to find the right data for an inference job and automate the data science workflow With the help of this solution the data location which may be on different storage systems and time of availability for the AI job can be fully abstracted which provides valuable information for data scientists

Parenting in the Context of Opioid Use: Mechanisms, Prevention Solutions, and Policy Implications Leslie D. Leve,Philip Andrew Fisher,Kristen Mackiewicz Seghete,Emily E. Tanner-Smith,Amanda M. Griffin,Carly Champagne,Elisabeth Conradt,2022-10-25

Geological Carbon Storage Stéphanie Vialle,Jonathan Ajo-Franklin,J. William

Carey,2018-11-12 Geological Carbon Storage Subsurface Seals and Caprock Integrity Seals and caprocks are an essential component of subsurface hydrogeological systems guiding the movement and entrapment of hydrocarbon and other fluids Geological Carbon Storage Subsurface Seals and Caprock Integrity offers a survey of the wealth of recent scientific work on caprock integrity with a focus on the geological controls of permanent and safe carbon dioxide storage and the commercial deployment of geological carbon storage Volume highlights include Low permeability rock characterization from the pore scale to the core scale Flow and transport properties of low permeability rocks Fundamentals of fracture generation self healing and permeability Coupled geochemical transport and geomechanical processes in caprock Analysis of caprock behavior from natural analogues Geochemical and geophysical monitoring techniques of caprock failure and integrity Potential environmental impacts of carbon dioxide migration on groundwater resources Carbon dioxide leakage mitigation and remediation techniques Geological Carbon Storage Subsurface Seals and Caprock Integrity is an invaluable resource for geoscientists from academic and research institutions with interests in energy and environment related problems as well as professionals in the field *Physics Briefs* ,1992 **Light Driven Micromachines** George K. Knopf,Kenji

Uchino,2018-03-29 In Light Driven Micromachines the fundamental principles and unique characteristics of light driven material structures simple mechanisms and integrated machines are explored Very small light driven systems provide a number of interesting features and unique design opportunities because streams of photons deliver energy into the system and provide the control signal used to regulate the response of the micron sized device Through innovative material design and clever component fabrication these optically powered tiny machines can be created to perform mechanical work when exposed to varying light intensity wavelength phase and or polarization The book begins with the scientific background necessary to understand the nature of light and how light can initiate physical movement by inducing material deformation or altering the surrounding environment to impose micro forces on the actuating mechanisms The impact of physical size on the performance of light driven mechanisms and machines is discussed and the nature of light material interactions is reviewed These interactions enable very small objects and mechanical components to be trapped and manipulated by a focused light beam or produce local temperature gradients that force certain materials to undergo shape transformation Advanced phase transition gels polymers carbon based films and piezoelectric ceramics that exhibit direct light to mechanical energy conversion are examined from the perspective of designing optically driven actuators and mechanical systems The ability of light to create photothermal effects that drive microfluidic processes and initiate the phase transformation of temperature sensitive shape memory materials are also explored in the book This compendium seeks to inspire the next generation of scientists and engineers by presenting the fundamental principles of this emerging interdisciplinary technology and exploring how the properties of light can be exploited for microfluidic microrobotic biomedical and space applications

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