

MODEL QUESTION PAPER 2023-24

I PUC - PHYSICS (33)

Time: 3 hours 15 min.

Max Marks: 70

General Instructions:

1. All parts are compulsory.
2. For Part – A questions, first written-answer will be considered for awarding marks.
3. Answers without relevant diagram / figure / circuit wherever necessary will not carry any marks.
4. Direct answers to the numerical problems without detailed solutions will not carry any marks.

PART – A

1. Pick the correct option among the four given options for ALL of the following questions:

15 × 1 = 15

1. The number of significant figures in 3.500 is

(A) 2 (B) 3 (C) 4 (D) 1

2. If v_A , v_B and v_C are the magnitudes of instantaneous velocities corresponding to the points A, B and C of the given position-time graph of a particle respectively, then

(A) $v_A = v_B = v_C$ (B) $v_A > v_B > v_C$
(C) $v_A < v_B < v_C$ (D) $v_A < v_B = v_C$



3. A vector is multiplied with a positive integer. The direction of the resultant vector is

(A) same as the initial vector (B) opposite to the initial vector
(C) perpendicular to the initial vector (D) not specified

4. 'An external force is required to keep a body in motion'. This is the statement of

(A) Newton's first law of motion (B) Newton's second law of motion
(C) Aristotelian law of motion (D) Newton's third law of motion

5. The non-contact force encountered in mechanics is

(A) normal reaction (B) frictional force (C) tension in a spring (D) gravitational force

6. 1 calorie is equal to

(A) 4.186 J (B) 1.6×10^{-19} J (C) 3.6×10^6 J (D) 10^{-7} J

7. A girl is sitting with folded hands on a swivel chair rotating with considerable angular speed. 'I' and ' ω ' are the moment of inertia and angular speed of the chair along with girl about the axis of rotation. She stretches her arms horizontally while the chair is rotating. During this

(A) I decreases and ω increases (B) I increases and ω decreases
(C) both I and ω increase (D) both I and ω decrease

8. The SI unit of universal gravitational constant (G) is :

(A) $\text{N m}^2 \text{kg}^{-1}$ (B) $\text{N m}^2 \text{kg}^{-2}$ (C) N m kg^{-2} (D) $\text{N m}^2 \text{kg}^{-3}$

Matric 2013 June Physics Question Paper

Ennio Macchi, Marco Astolfi



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Harmonic Oscillators and Two-By-Two Matrices in Symmetry Problems in Physics Young Suh Kim,2018-07-09

This book is a printed edition of the Special Issue Harmonic Oscillators In Modern Physics that was published in Symmetry

Proceedings of the 7th International Conference on Axiomatic Design Mary Kathryn Thompson,2013-06-26

The Practitioner's Handbook of Project Performance Mark Phillips,2019-11-11 Practitioners operate in a necessary reality We work in a space where project performance is above theory or methodology In the best environments delivery and an affirmative culture are what matter most In the worst it is politics and survival In any environment we are challenged to adopt best practices and adapt our style to the environment in which the project is occurring This is a book about those best practices and practitioner experiences It is a must have reference and guide book for project managers general managers business leaders and project management researchers This book is the result of the hard work and dedication of more than 35 authors from more than 15 countries across four continents It brings a diversity of experience professional and personal It includes practitioners leading academics renowned theorists and many who straddle those roles The chapters cover experiences in software large scale infrastructure projects finance and health care to name a few The chapters themselves take many forms Check out the table of contents to get a deeper sense of the topics included All provide real world guidance on delivering high performing projects and show you how to build lead and manage high performing teams The Practitioners Handbook of Project Performance is complete in itself It can also be an enticing start to an ongoing dialogue with the authors and a pleasurable path to get deeper into the subject of project performance Find your favorite place to begin learning from these chapters to begin taking notes and taking away nuggets to use in your everyday But don't stop there Contact information and further resources for this diverse team of experts authors are found throughout The Practitioners Handbook is a modern guide to the leading edge of project performance management and a path to the future of project delivery

Organic Rankine Cycle (ORC) Power Systems Ennio Macchi,Marco Astolfi,2016-08-24 Organic Rankine Cycle ORC Power Systems Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost effective sustainable energy generation Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations as well as waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes With hundreds of ORC power systems already in operation and the market growing at a fast pace this is an active and engaging area of scientific research and technical development The book is structured in three main parts i Introduction to ORC Power Systems Design and Optimization ii ORC Plant Components and iii Fields of Application Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies including

cogeneration from biomass electricity generation from geothermal reservoirs and concentrating solar power installations waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes Various chapters are authored by well known specialists from Academia and ORC manufacturers

Thermal Radiation Heat Transfer John R. Howell, M. Pinar Mengüç, Kyle Daun, Robert Siegel, 2020-12-09 The seventh edition of this classic text outlines the fundamental physical principles of thermal radiation as well as analytical and numerical techniques for quantifying radiative transfer between surfaces and within participating media The textbook includes newly expanded sections on surface properties electromagnetic theory scattering and absorption of particles and near field radiative transfer and emphasizes the broader connections to thermodynamic principles Sections on inverse analysis and Monte Carlo methods have been enhanced and updated to reflect current research developments along with new material on manufacturing renewable energy climate change building energy efficiency and biomedical applications Features Offers full treatment of radiative transfer and radiation exchange in enclosures Covers properties of surfaces and gaseous media and radiative transfer equation development and solutions Includes expanded coverage of inverse methods electromagnetic theory Monte Carlo methods and scattering and absorption by particles Features expanded coverage of near field radiative transfer theory and applications Discusses electromagnetic wave theory and how it is applied to thermal radiation transfer This textbook is ideal for Professors and students involved in first year or advanced graduate courses modules in Radiative Heat Transfer in engineering programs In addition professional engineers scientists and researchers working in heat transfer energy engineering aerospace and nuclear technology will find this an invaluable professional resource Over 350 surface configuration factors are available online many with online calculation capability Online appendices provide information on related areas such as combustion radiation in porous media numerical methods and biographies of important figures in the history of the field A Solutions Manual is available for instructors adopting the text Journal of the Physical Society of Japan ,1991 **Soviet Physics, Uspekhi** ,1983 **Neuromorphic Photonics** Paul R. Prucnal, Bhavin J. Shastri, 2017-05-08 This book sets out to build bridges between the domains of photonic device physics and neural networks providing a comprehensive overview of the emerging field of neuromorphic photonics It includes a thorough discussion of evolution of neuromorphic photonics from the advent of fiber optic neurons to today's state of the art integrated laser neurons which are a current focus of international research Neuromorphic Photonics explores candidate interconnection architectures and devices for integrated neuromorphic networks along with key functionality such as learning It is written at a level accessible to graduate students while also intending to serve as a comprehensive reference for experts in the field

Florence Nightingale David Amanda L. Golbeck, 2025-02-27 This book examines Florence Nightingale David's life contributions and relationships throughout her life as well as her subsequent legacy Florence Nightingale David 1909-1993 was the first woman professor in the world's first academic statistics department served in various British ministries during

the war from 1939 1945 and was one of the first women to chair a statistics department in a research university In this biography the life stories of David are used as a vehicle to explore a variety of questions surrounding culture and engagement in the statistical sciences What does it take to succeed in an environment that is not inclusive of your demographic How can stories be used to bring technical material to life for students and other learners And how can a nontraditional leader succeed in challenging boundaries and moving an enterprise forward

Materials and Processes
 Barrie D. Dunn, 2015-12-29 The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications these could cover a wide range of fields from light weight structures to electronic hardware The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can by analogy be applied to other industries Difficult to find material data is included for reference The sciences of metallic primarily and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes which involve quality material and processes evaluations and the selection of mechanical and component parts In this successor edition which has been revised and updated engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs Space hardware captured by astronauts and returned to Earth from long durations in space are examined Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics medical equipment and ground transportation This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub systems

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