

2025

भौतिक विज्ञान (सैद्धांतिक)
PHYSICS (Theory)

समय : 3 घंटे]

Time : 3 Hour

[पूर्णांक : 70

Max. Marks : 70

SECOND SAMPLE PAPER

निर्देश : (i) इस प्रश्नपत्र में कुल 26 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।

Directions : There are in all 26 questions in the question paper. All questions are compulsory.

(ii) प्रश्नों हेतु निर्धारित अंक उनके सम्मुख अंकित हैं।
Marks allotted to the questions are mentioned against them.

(iii) प्रत्येक प्रश्न को ध्यानपूर्वक पढ़िए तथा समुचित उत्तर दीजिए।
Read each question carefully and answer to the point.

(iv) प्रश्न संख्या 1 बहुविकल्पीय प्रश्न है। इस प्रश्न के प्रत्येक खण्ड के उत्तर में चार विकल्प दिए गए हैं। सही विकल्प अपनी उत्तर पुस्तिका में लिखिए। प्रश्न संख्या 2 से 5 तक निश्चित उत्तरीय प्रश्न हैं।

Question No. 1 is multiple choice question. Four options are given in answer of each part of this question. Write correct option in your answer book. Question No. 2 to 5 are definite answer type questions.

(v) प्रश्न संख्या 1 का प्रत्येक खण्ड एक अंक का है। प्रश्न संख्या 2 से 5 तक एक अंक के प्रश्न हैं। प्रश्न संख्या 6 से 15 तक दो तक अंक के प्रश्न हैं। प्रश्न संख्या 16 से 23 तक तीन अंक के प्रश्न हैं। प्रश्न संख्या 24 से 26 तक चार अंक के प्रश्न हैं, जिसमें प्रश्न संख्या 26 केस/सोत आधारित प्रश्न है।

**PHYSICS
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Uttarakhand Board 2013 Physics Paper

E Durkheim



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narrative alongside other ways of generating electricity Be prepared to be challenged to think seriously about nuclear s merits in providing clean low carbon electricity *The Future of the Professions* Richard Susskind, Daniel Susskind, 2022-03-31 This book predicts the decline of today s professions and introduces the people and systems that will replace them In an internet enhanced society according to Richard Susskind and Daniel Susskind we will neither need nor want doctors teachers accountants architects the clergy consultants lawyers and many others to work as they did in the 20th century The Future of the Professions explains how increasingly capable technologies from telepresence to artificial intelligence will place the practical expertise of the finest specialists at the fingertips of everyone often at no or low cost and without face to face interaction The authors challenge the grand bargain the arrangement that grants various monopolies to today s professionals They argue that our current professions are antiquated opaque and no longer affordable and that the expertise of their best is enjoyed only by a few In their place they propose five new models for producing and distributing expertise in society The book raises profound policy issues not least about employment they envisage a new generation of open collared workers and about control over online expertise they warn of new gatekeepers in an era when machines become more capable than human beings at most tasks With a new preface exploring recent critical developments this updated edition builds on the authors groundbreaking research into more than a dozen professions Illustrated with numerous examples from each this is the first book to assess and question the relevance of the professions in the 21st century The Routledge Handbook of Philosophy of Information Luciano Floridi, 2016-06-17 Information and communication technology occupies a central place in the modern world with society becoming increasingly dependent on it every day It is therefore unsurprising that it has become a growing subject area in contemporary philosophy which relies heavily on informational concepts The Routledge Handbook of Philosophy of Information is an outstanding reference source to the key topics and debates in this exciting subject and is the first collection of its kind Comprising over thirty chapters by a team of international contributors the Handbook is divided into four parts basic ideas quantitative and formal aspects natural and physical aspects human and semantic aspects Within these sections central issues are examined including probability the logic of information informational metaphysics the philosophy of data and evidence and the epistemic value of information The Routledge Handbook of Philosophy of Information is essential reading for students and researchers in philosophy computer science and communication studies Spatial Dependence and Data-Driven Networks of International Banks Ben Craig, Martín Saldías, 2016-09-15 This paper computes data driven correlation networks based on the stock returns of international banks and conducts a comprehensive analysis of their topological properties We first apply spatial dependence methods to filter the effects of strong common factors and a thresholding procedure to select the significant bilateral correlations The analysis of topological characteristics of the resulting correlation networks shows many common features that have been documented in the recent literature but were obtained with private information on banks exposures including

rich and hierarchical structures based on but not limited to geographical proximity small world features regional homophily and a core periphery structure *Behavioural Approaches to Corporate Governance* Cameron Elliott Gordon,2015-10-05 Corporate governance failures are all too frequent and their patterns and outcomes seem avoidably familiar This book examines the findings of behavioural finance and economics that are most relevant to governance problems and suggests potential solutions that are best suited to real world practice and circumstance There is a great deal of existing theory that claims to predict the causes and effects of poor governance and provide solutions However the implementation of such measures seems to do little more than merely delay inevitable crises This book develops a synthesis framework to examine the relative strengths and weaknesses of a behavioural versus deductive approach to understanding the failures of governance It concludes with a discussion of how corporate governance theory may need to shift going forward perhaps to include a heterodox ecosystem of theoretical paradigms This book will be of interest to students researchers and practitioners concerned with corporate governance economic theory and behavioural economics **Sustainable Food**

Supply Chains Riccardo Accorsi,Riccardo Manzini,2019-06-12 Sustainable Food Supply Chains Planning Design and Control through Interdisciplinary Methodologies provides integrated and practicable solutions that aid planners and entrepreneurs in the design and optimization of food production distribution systems and operations and drives change toward sustainable food ecosystems With synthesized coverage of the academic literature this book integrates the quantitative models and tools that address each step of food supply chain operations to provide readers with easy access to support decision quantitative and practicable methods Broken into three parts the book begins with an introduction and problem statement The second part presents quantitative models and tools as an integrated framework for the food supply chain system and operations design The book concludes with the presentation of case studies and applications focused on specific food chains Sustainable Food Supply Chains Planning Design and Control through Interdisciplinary Methodologies will be an indispensable resource for food scientists practitioners and graduate students studying food systems and other related disciplines Contains quantitative models and tools that address the interconnected areas of the food supply chain Synthesizes academic literature related to sustainable food supply chains Deals with interdisciplinary fields of research Industrial Systems Engineering Food Science Packaging Science Decision Science Logistics and Facility Management Supply Chain Management Agriculture and Land use Planning that dominate food supply chain systems and operations Includes case studies and applications

Successful Women Ceramic and Glass Scientists and Engineers Lynnette Madsen,2016-01-15 Presents a diverse perspective of successful inspirational and progressive women in science and engineering Women of today from 29 countries provide overviews of their successful careers the challenges they faced and offer advice They have lived in the same era and perhaps also the same environment as you Successful Women Ceramic and Glass Scientists and Engineers 100 Inspirational Profiles features women born in the 1920 s to 1970 s Reflecting a diversity of backgrounds and different sectors of the

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ICCSM2013-Proceedings of the International Conference on Cloud Security Management Barbara Endicott-Popovsky, 2013-01-09 [Poisonous Skies](#) Rachel Emma Rothschild, 2019-07-19 The climate change reckoning looms As scientists try to discern what the Earth's changing weather patterns mean for our future Rachel Rothschild seeks to understand the current scientific and political debates surrounding the environment through the history of another global environmental threat acid rain The identification of acid rain in the 1960s changed scientific and popular understanding of fossil fuel pollution's potential to cause regional and even global environmental harms It showed scientists that the problem of fossil fuel pollution was one that crossed borders it could travel across vast stretches of the earth's atmosphere to impact ecosystems around the world This unprecedented transnational reach prompted governments for the first time to confront the need to cooperate on pollution policies transforming environmental science and diplomacy Studies of acid rain and other pollutants brought about a reimagining of how to investigate the natural world as a complete entity and the responses of policy makers scientists and the public set the stage for how societies have approached other prominent environmental dangers on a global scale most notably climate change Grounded in archival research spanning eight countries and five languages as well as interviews with leading scientists from both government and industry Poisonous Skies is the first book to examine the history of acid rain in an international context By delving deep into our environmental past Rothschild hopes to inform its future showing us how much is at stake for the natural world as well as what we risk and have

already risked by not acting **Report of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Board on Life Sciences, Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics, Seventh Round, 2016-10-31 This report describes the work of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics Seventh Round The committee evaluated submissions received in response to a Request for Proposals RFP for biomolecular simulation time on Anton a supercomputer specially designed and built by D E Shaw Research DESRES Over the past five years DESRES has made an Anton system housed at the Pittsburgh Supercomputing Center PSC available to the non commercial research community based on the advice of previous National Research Council committees As in prior rounds the goal of the seventh RFP for simulation time on Anton is to continue to facilitate breakthrough research in the study of biomolecular systems by providing a massively parallel system specially designed for molecular dynamics simulations The program seeks to continue to support research that addresses important and high impact questions demonstrating a clear need for Anton s special capabilities Report of the Committee on Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics Seventh Round is the report of the committee s evaluation of proposals based on scientific merit justification for requested time allocation and investigator qualifications and past accomplishments This report identifies the proposals that best met the selection criteria Remote Sensing of Volcanoes and Volcanic Processes D.M. Pyle, T.A. Mather, J. Biggs, 2014-01-06 This volume focuses on how advances in both remote sensing and modelling can be brought together to improve our understanding of the behaviour of active volcanoes It includes review papers papers reporting technical advances and case studies showing how the integration of remote sensing observations with models can be put to good use **Safety and Reliability - Safe Societies in a Changing World** Stein Haugen, Anne Barros, Coen van Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range

of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

Proceedings of the 18th International Conference on Low Temperature Physics: Contributed papers, 1987

Radon, Health and Natural Hazards G.K. Gillmore, F.E. Perrier, R.G.M. Crockett, 2018-05-01 This volume draws together the final outputs of the five year UNESCO IUGS IGCP Project 571 and presents new data on radon in the built and natural environments radon as a diagnostic tool of geophysical phenomena reflections and recommendations on the future of radon research and a critique of radon's asserted use as a therapy By considering all the aspects of radon as a health hazard and potential indicator of natural hazards the project brought together the dispersed research from universities governmental and non governmental bodies as well as commercial companies on radon within an interdisciplinary context to facilitate scientific advancement and understanding Through the establishment of working groups at regional and local levels and the development of research networks a variety of international meetings were organized and a number of journal special issues published to disseminate the results The scale of the project was global scientists from over 20 European countries plus countries in the Americas Asia and the Middle East have been participants of the project This volume results from UNESCO IUGS IGCP Project 571 Radon Health and Natural Hazards Radon has significant socio economic relevance in the developed and developing worlds primarily in terms of the indoor radon hazard but also certain geohazards This volume presents a broad range of papers including methodological technological and interpretative aspects as well as case study material This volume results from UNESCO IUGS IGCP Project 571 Radon Health and Natural Hazards This volume presents a broad range of papers including methodological technological and interpretative aspects as well as case study material

Commonly Asked Questions in Thermodynamics Marc J. Assael, Geoffrey C. Maitland, Thomas Maskow, Urs von Stockar, William A. Wakeham, Stefan Will, 2022-08-05 CRC Press is pleased to introduce the new edition of Commonly Asked Questions in Thermodynamics an indispensable resource for those in modern science and engineering disciplines from molecular science engineering and biotechnology to astrophysics Fully updated throughout this edition features two new chapters focused on energy utilization and biological systems This edition begins by setting out the fundamentals of thermodynamics including its basic laws and overarching principles It provides explanations of those principles in an organized manner using questions that arise frequently from undergraduates in the classroom as the stimulus These early chapters explore the language of thermodynamics the first and second laws statistical mechanical theory measurement of thermodynamic quantities and their relationships phase behavior in single and multicomponent systems electrochemistry and chemical and biochemical reaction equilibria The later chapters explore applications of these

fundamentals to a diverse set of subjects including power generation with and without fossil fuels for transport industrial and domestic use heating decarbonization technologies energy storage refrigeration environmental pollution and biotechnology Data sources for the properties needed to complete thermodynamic evaluations of many processes are included The text is designed for readers to dip into to find an answer to a specific question where thermodynamics can provide some if not all of the answers whether in the context of an undergraduate course or not Thus its readership extends beyond conventional technical undergraduates to practicing engineers and also to the interested lay person who seeks to understand the discourse that surrounds the choice of particular technological solutions to current and future energy and material production problems

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