



KWAZULU-NATAL PROVINCE

**EDUCATION
REPUBLIC OF SOUTH AFRICA**

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2023

MARKING GUIDELINES

MARKS: 150

TIME: 3 hours

This marking guidelines consists of 16 pages.

Physical Science P1 November Cluster

JA Banks



Physical Science P1 November Cluster:

Many-body Theory of Molecules, Clusters, and Condensed Phases Norman Henry March, G. G. N. Angilella, 2010 This book provides a comprehensive review of seminal as well as recent results in the theory of condensed phases including liquid metals quantum liquids and Wigner crystals along with selected applications especially in the physical chemistry of molecules and clusters A large part of this work is dedicated to The Thomasndash Fermi semiclassical approximation for molecules and condensed phases and its extension to inhomogeneous electron liquids and liquid metals Correlation effects in quantum liquids and Wigner crystallization are other areas of focus of this work with an emphasis towards the effect of low dimensionality and magnetic fields The volume is a collection of reprints by N H March and collaborators over five decades

Nuclear Science Abstracts ,1976 *ICPMG2014 - Physical Modelling in Geotechnics* Christophe Gaudin, David White, 2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics ICPMG2014 was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering This quadrennial conference is the traditional focal point for the physical modelling community of academics scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering These proceedings together with the seven previous proceedings dating from 1988 present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer reviewed papers from 26 countries They are organised in 14 themes presenting the latest developments in physical modelling technology modelling techniques and sensors through a wide range of soil structure interaction problems including shallow and deep foundations offshore geotechnics dams and embankments excavations and retaining structures and slope stability Fundamental aspects of earthquake engineering geohazards ground reinforcements and improvements and soil properties and behaviour are also covered demonstrating the increasing complexity of modelling arising from state of the art technological developments and increased understanding of similitude principles A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1977 *ERDA Energy Research Abstracts* ,1976 [The Journal of Chemical Physics](#) ,2003 **Indian Journal of Pure & Applied Physics** ,1989 **Soviet Physics** ,1984-07 **ERDA energy research abstracts** ,1977 [Scientific and Technical Aerospace Reports](#) ,1975 *Soviet Physics, Crystallography* ,1993 *Resources in Education* ,1981 [Physics Briefs](#) ,1992 **ERDA Research Abstracts** United States. Energy Research

and Development Administration,1976 *Geometrical Pictures in Hadronic Collisions* S. Y. Lo,1987 The book centers mainly on the geometrical ideas on hadron scattering as generated by C N Yang and his collaborators The relation of elastic scattering amplitude with the hadronic form factors is obtained via the Chou Yang model *The Journal of Physics and Chemistry of Solids* ,1972 **Journal of the Physical Society of Japan** ,2009 *Physics And Chemistry Of Fullerenes* Peter W Stephens,1993-11-24 The creation of the hollow carbon buckminsterfullerene molecule as well as methods to produce and purify bulk quantities of it has triggered an explosive growth of research in the field Superconducting and magnetic fullerenes atoms trapped inside the fullerene cage chemically bonded fullerene complexes and nanometer scale helical carbon tubes are some of the leading areas that have generated much excitement This book is intended as a guide to the literature for the scientist who is just entering fullerene research and will be one more valuable volume to the collection for the established worker It contains reprints of some sixty most important research papers with focus especially on those papers that have guided further work in the field There is also a short review of the field with references to many other publications CTET & TETs Previous Years Papers Class (1 to 5) Paper-1 2021 Arihant Experts,2021-07-28 1 The book is complete practice capsule for CTET and TETs Entrances 2 This practice capsule deals with Paper 1 for classes 1 to 5 3 Covers Previous Years Questions 2021 2013 of various Teaching Entrances 4 More than 3000 Questions are provided for practice 5 Well detailed answers help to understand the concepts Central Teacher Eligibility Test CTET or Teacher Eligibility Test TET are the national level teaching entrance exams that recruit eligible candidates as teacher who are willing to make their careers in the stream of teaching at Central or State Government Schools Prepared under National curriculum pattern the current edition of CTET TETs Previous Years Solved Papers Paper 1 for Class 1 5 is a complete practice package for teaching entrances This book covers all the previous years questions 2021 2013 providing complete detailed explanations of each question It has more than 3000 Questions that are asked in various Teaching Entrances that promote self evaluation by enabling not just practicing and revising concepts but also to keep track of self progress Well detailed answers help students to win over doubt and fears associated with exam Preparation done from this book proves to be highly useful for CTET TET Paper I in achieving good rank TABLE OF CONTENT Solved Paper 2021 2013

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