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PHYSICAL SCIENCES PAPER 1 (PHYSICS)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



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Physical Science 1march Paper

Liyong Dong



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Modern scientific research has changed so much since Isaac Newton s day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton s day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton s optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society s comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history Calendar University of St. Andrews,1926 **OAR Progress** United States. Air Force. Office of Aerospace Research,1969 *Redirecting Science* Finn Aaserud,2003-01-30 This volume is an important study for understanding the complex interconnections between basic science and its sources of economic support in the period between the two world wars The focus of the study is on the Institute for Theoretical Physics later renamed the Niels Bohr Institute at Copenhagen University and the role of its director the eminent Danish physicist Niels Bohr in the funding and administration of the Institute Under Bohr s direction the Copenhagen Institute was a central workplace in the development and the formulation of quantum mechanics in the 1920s and later became an important center for nuclear research in the 1930s Dr Aaserud brings together the scholarship on the internal origins and development of nuclear physics in the 1930s with descriptions of the concurrent changes in private support for international basic science particularly as represented by Rockefeller Foundation philanthropy In the process the book places the emergence of nuclear physics in a larger historical context This book will

appeal to historians of science physicists and advanced students in these areas **The Making of Modern Physics in Colonial India** Somaditya Banerjee, 2020-05-14 This monograph offers a cultural history of the development of physics in India during the first half of the twentieth century focusing on Indian physicists Satyendranath Bose 1894 1974 Chandrasekhara Venkata Raman 1888 1970 and Meghnad Saha 1893 1956 The analytical category bhadralok physics is introduced to explore how it became possible for a highly successful brand of modern science to develop in a country that was still under colonial domination The term Bhadralok refers to the then emerging group of native intelligentsia who were identified by academic pursuits and manners Exploring the forms of life of this social group allows a better understanding of the specific character of Indian modernity that as exemplified by the work of bhadralok physicists combined modern science with indigenous knowledge in an original program of scientific research The three scientists achieved the most significant scientific successes in the new revolutionary field of quantum physics with such internationally recognized accomplishments as the Saha ionization equation 1921 the famous Bose Einstein statistics 1924 and the Raman Effect 1928 the latter discovery having led to the first ever Nobel Prize awarded to a scientist from Asia This book analyzes the responses by Indian scientists to the radical concept of the light quantum and their further development of this approach outside the purview of European authorities The outlook of bhadralok physicists is characterized here as cosmopolitan nationalism which allows us to analyze how the group pursued modern science in conjunction with and as an instrument of Indian national liberation OAR ,1969
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