

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018  
(CUCBCSS—UG)

Physics/Applied Physics

PHY 5B 08/APY 5B 09—PHYSICAL OPTICS AND MODERN OPTICS

Time : Three Hours

Maximum : 80 Marks

Section A

Answer in a word or phrase.

Answer all questions. Each question carries 1 mark.

1. To determine optical rotation of solutions \_\_\_\_\_ is used.  
(a) Interferometer. (b) Spectrometer.  
(c) Magnetometer. (d) Polarimeter.
2. Wide separation of spectral lines indicates :  
(a) High resolving power. (b) High magnifying power.  
(c) High dispersive power. (d) None of these.
3. A biprism produce  $N_1$  fringes with light of wavelength  $\lambda_1$ . The number of fringes with wavelength  $\lambda_2$  is \_\_\_\_\_.  
(a)  $\lambda_1 N_1 / \lambda_2$ . (b)  $\lambda_2 N_1 / \lambda_1$ .  
(c)  $\lambda_1 / \lambda_2 N_1$ . (d)  $[\lambda_1 / \lambda_2]^{1/2} N_1$ .
4. To invert a circularly polarized light, we use:  
(a) Quarter wave plate. (b) Halfwave plate.  
(c) Half shade device. (d) Biquartz device.
5. When focal length of a lens decreases, the field of view of the lens \_\_\_\_\_.
6. Colours of thin films are explained using the phenomenon called \_\_\_\_\_.
7. Which one is not used to produce interference pattern  
(a) Biprism. (b) Two mirror.  
(c) Newton's rings. (d) Nicol prism.

Turn over

# Science Physics Paper 5th Of June 2013

**G.H. Spence,J. Redfern,R.  
Aguilera,T.G. Bevan,J.W. Cosgrove,  
G.D. Couples,J.-M. Daniel**

## Science Physics Paper 5th Of June 2013:

**Bihar and Mithila** J. Albert Rorabacher, 2016-09-13 The struggling states of Bihar and Mithila serve as extreme examples of India's problems. Development here has been thwarted by a hereditary landed aristocracy supported by religion, casteism, custom, social stratification, tradition, and patterns of behaviour that can be traced back millennia. In turn, all these have been masterfully manipulated by co-opted politicians who have turned politics into a veritable art form, as this volume comprehensively demonstrates. Please note: Taylor Francis does not sell or distribute the Hardback in India, Pakistan, Afghanistan, Nepal, Bhutan, Bangladesh, and Sri Lanka.

**Intelligent Communication, Control and Devices** Rajesh Singh, Sushabhan Choudhury, Anita Gehlot, 2018-04-10 The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It contains high quality research papers presented at the 2nd international conference ICICCD 2017 organized by the Department of Electronics Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun, on 15 and 16 April 2017. The volume broadly covers recent advances of intelligent communication, intelligent control, and intelligent devices. The work presented in this book is original research, work findings, and practical development experiences of researchers, academicians, scientists, and industrial practitioners.

From The Vault of Schrodinger's Cat Natasha Parkinson, 2023-08-02 Schrodinger's Cat was a science blog set out to debunk the science misinformation that was and is rampant on social media, as well as be a credible and trusted source to answer all of readers' science questions such as: What makes fireworks different colours? How do birds find their way when migrating? What is a GMO? Is it possible to recreate Frankenstein's Monster? What causes that Thanksgiving day turkey coma? What is healthier: Eating meat or being vegan? Is green energy more efficient, and how much would a city need to power itself? Can sunscreen really give you cancer? How far away are we from having a zoo full of extinct animals? Is the science and technology in my favourite movie/video game even possible? Did they actually find water on Mars? Why are the InSight and Parker Solar Probe missions so important? All of this and more are answered in From The Vault of Schrodinger's Cat, a collection of readers' favourite posts from the beloved blog Schrodinger's Cat, including footnotes of updates of how the science has progressed since the post was released, and extensive works cited and resources to provide the same level of transparency, dedication to fact checking, and search for knowledge that the readers of Schrodinger's Cat have come to know.

**Employment on Offshore Drilling Platforms COMPLETE COURSE** Petrogav International Oil & Gas Training Center, 2020-07-02 This course covers aspects like HSE, Process, Mechanical, Electrical, and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry. The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview, Petrogav International has prepared this eBook that will help you to get a job in oil and gas industry. As a BONUS, this eBook contains web addresses to 307 video movies for a better

understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job

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**Flash!** Kate Flint,2017-11-28 Flash presents a fascinating cultural history of flash photography from its mid nineteenth century beginnings to the present day All photography requires light but the light of flash photography is quite distinctive artificial sudden shocking intrusive and extraordinarily bright Associated with revelation and wonder it has been linked to the sublimity of lightning Yet it has also been reviled it s inseparable from anxieties about intrusion and violence it creates a visual disturbance and its effects are often harsh and create exaggerated contrasts Flash explores flash s power to reveal shocking social conditions its impact on the representation of race its illumination of what would otherwise remain hidden in darkness and its capacity to put on display the most mundane corners of everyday life It looks at flash s distinct aesthetics examines how paparazzi chase celebrities how flash is intimately linked to crime how flash has been used to light up and interrupt countless family gatherings how flash can stop time allowing one to photograph rapidly moving objects or freeze in a strobe and it considers the biggest flash of all the atomic bomb Examining the work of professionals and amateurs news hounds and art photographers photographers of crime and of wildlife the volume builds a picture of flash s place in popular culture and its role in literature and film Generously illustrated throughout Flash brings out the central role of this medium to the history of photography and challenges some commonly held ideas about the nature of photography itself **Fluid**

**Dynamics in Complex Fractured-Porous Systems** Boris Faybishenko, Sally M. Benson, John E. Gale, 2015-06-15 Despite of many years of studies predicting fluid flow heat and chemical transport in fractured porous media remains a challenge for scientists and engineers worldwide This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union Geophysical Monograph Series Vol 162 2005 and Geophysical Monograph No 122 2000 This monograph is dedicated to the late Dr Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology including such fundamental and applied problems as environmental remediation exploitation of oil gas and geothermal resources disposal of spent nuclear fuel and geotechnical engineering This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics field measurements and experiments for different practical applications Readers of this book will include researchers engineers and professionals within academia Federal agencies and industry as well as graduate undergraduate students involved in theoretical experimental and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones including studies pertaining to petroleum and geothermal reservoirs environmental management and remediation mining gas storage and radioactive waste isolation in underground repositories Volume highlights include discussions of the following Fundamentals of using a complex systems approach to describe flow and transport in fractured porous media Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi disciplinary research for different applications

*Educart NEET 37 Years Chemistry Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam* Educart, Dr. Rakshita Singh, 2024-07-25

**International Communities of Invention and Innovation** Arthur Tatnall, Christopher Leslie, 2016-11-30 This book contains revised selected papers presented at the IFIP WG 9.7 International Conference on the History of Computing HC 2016 held in Brooklyn NY USA in May 2016 The 13 full papers included in this volume were carefully reviewed and selected from numerous submissions The papers cover a wide range of topics related to the history of computing and focus on the history of pre existing relationships and communities that led to triumphs and dead ends in the history of computing This broad perspective helps to tell a more accurate story of important developments like the Internet and provide a better understanding of how to sponsor future invention and innovation They reflect on histories that foreground the international community along four broad themes invention policy infrastructure and social history

*The technological process on Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center, 2020-07-02 This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry The job interview is probably the most important step you will take in your job search journey Because it is always important to be prepared to respond effectively to the questions that employers typically ask at a

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**Big Science, Innovation, and Societal Contributions** Shantha Liyanage,Markus Nordberg,Marilena Streit-Bianchi,2024-03-12 Big Science Innovation and Societal Contributions offers a connection between Big Science and its societal impacts from a multidisciplinary perspective drawing on physics and astrophysics scholars to explain the reasoning behind their work and how such knowledge can be applied to everyday life Through simplifying complex scientific concepts Big Science Innovation and Societal Contributions explains the evolution of Big Science experiments and what it takes to manage and maintain complex scientific experiments with a human centred approach Further it examines the motivations behind international efforts to develop capital intensive and human resource rich large scale multi national scientific investments to solve fundamental research problems concerning our future Drawing on reliable scientific evidence multi disciplinary perspectives and personal insights from collider physics detectors accelerator and telescopes research the volume outlines the mechanisms benefits and methodologies as well as the potential challenges and short comings of Big Science to learn and reflect on for future initiatives This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations

*Thermal Energy* Yatish T. Shah,2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

**Occasional Papers of the California Academy of Sciences**,2013

Advances in Engineering Education in the Middle East and North Africa Mahmoud Abdulwahed,Mazen O. Hasna,Jeffrey E. Froyd,2015-11-18 This book provides a collection of the latest advances in engineering education in the Middle East and North Africa MENA region and sheds insights for future development It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region The authors look at recent innovations through the lens of four topics learning and teaching curriculum development assessment and accreditation and challenges and sustainability They also include analyses of pedagogical innovations models for transforming engineering education and methods for using technological innovations to enhance active learning Engineering education topics on issues such as construction health and safety urban design and environmental engineering in the context of the MENA region are

covered in further detail The book concludes with practical recommendations for implementations in engineering education This is an ideal book for engineering education academics engineering curriculum developers and accreditation specialists and deans and leaders in engineering education TMS 2013 142nd Annual Meeting and Exhibition The Minerals, Metals & Materials Society (TMS),2013-02-22 Presenting papers from the 2013 annual meeting of The Minerals Metals Materials Society TMS this volume covers developments in all aspects of high temperature electrochemistry from the fundamental to the empirical and from the theoretical to the applied Advances in the Study of Fractured Reservoirs G.H. Spence,J. Redfern,R. Aguilera,T.G. Bevan,J.W. Cosgrove, G.D. Couples,J.-M. Daniel,2014-08-27 Naturally fractured reservoirs constitute a substantial percentage of remaining hydrocarbon resources they create exploration targets in otherwise impermeable rocks including under explored crystalline basement and they can be used as geological stores for anthropogenic carbon dioxide Their complex behaviour during production has traditionally proved difficult to predict causing a large degree of uncertainty in reservoir development The applied study of naturally fractured reservoirs seeks to constrain this uncertainty by developing new understanding and is necessarily a broad integrated interdisciplinary topic This book addresses some of the challenges and advances in knowledge approaches concepts and methods used to characterize the interplay of rock matrix and fracture networks relevant to fluid flow and hydrocarbon recovery Topics include describing characterizing and identifying controls on fracture networks from outcrops cores geophysical data digital and numerical models geomechanical influences on reservoir behaviour numerical modelling and simulation of fluid flow and case studies of the exploration and development of carbonate siliciclastic and metamorphic naturally fractured reservoirs **Electromagnetic Methods in Geophysics** Fabio Giannino,Giovanni Leucci,2021-08-31 Discover the utility of four popular electromagnetic geophysical techniques In GeoRadar FDEM TDEM and AEM Methods accomplished researchers Fabio Giannino and Giovanni Leucci deliver an in depth exploration of the theory and application of four different electromagnetic geophysical techniques ground penetrating radar the frequency domain electromagnetic method the time domain electromagnetic method and the airborne electromagnetic method The authors offer a full description of each technique as they relate to the economics planning and logistics of deploying each of them on site The book also discusses the potential output of each method and how it can be combined with other sources of below and above ground information to create a digitized common point cloud containing a wide variety of data Giannino and Leucci rely on 25 years of professional experience in over 40 countries around the world to provide readers with a fulsome description of the optimal use of GPR FDEM TDEM and AEM demonstrating their flexibility and applicability to a wide variety of use cases Readers will also benefit from the inclusion of A thorough introduction to electromagnetic theory including the operative principles and theory of ground penetrating radar GPR and the frequency domain electromagnetic method FDEM An exploration of hardware architecture and surveying including GPR FDEM time domain electromagnetic method TDEM and airborne electromagnetic AEM surveying A collection of case studies including a

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International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in  
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## **Science Physics Paper 5th Of June 2013** Book Review: Unveiling the Magic of Language

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