

PHYSICS PRACTICAL SHEETS

Date ... 20/8/08 ...

Class ... B.Sc. 2nd Year ...

Roll No. ... 967 ...

Shift ... Day ...

Object of the Experiment (Block Letter)

Amrit Campus

Experiment No. ... 1 ...

Group ... PG ...

Sub. ... Physics Practical ...

Set ... General ...

DETERMINE THE WAVELENGTH OF GIVEN LASER LIGHT USING PLANE DIFFRACTION GRATING.

Apparatus Required:

A He-Ne laser source, a plane transmission diffraction grating, a grating stand, screen, measuring tape and a 1-m-m. scale.

Theory:

When a parallel beam of monochromatic light is incident normally on a grating, the transmitted light gives rise to primary maxima in certain directions given by the relation

$$(a + b) \sin \theta_n = n\lambda$$

where a is the width of a transparency, b that of opacity, θ_n the angle of diffraction for the n^{th} order maximum and λ the wavelength of light.


For the first order spectrum,

$$(a + b) \sin \theta_1 = \lambda$$

For the second order spectrum,

$$(a + b) \sin \theta_2 = 2\lambda$$

and so on.


08/08/08

Bsc Physics Practical

University of Calcutta



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B.Sc. Practical Physics CL Arora, 2001 B Sc Practical Physics **B.Sc. Practical Physics** Harnam Singh | PS Hemne, 2000-10 FOR B SC STUDENTS OF ALL INDIAN UNIVERSITIES Physics Practicals: Part-III , **Physics for B.Sc. Students: Semester III (Theory | Practical) (Electromagnetic Theory & Modern Optics) (NEP-UP)** P S Hemne & C L Arora, This textbook has been designed to meet the needs of B Sc Third Semester students of Physics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 Maintaining the traditional approach to the subject this textbook comprehensively covers both the parts of the theory papers namely Electromagnetic Theory and Modern Optics as well as the Practical Paper The theory part includes important theoretical topics such as Electrostatics Magnetostatics Time Varying Electromagnetic Fields Electromagnetic Waves Interference Diffraction Polarisation and Lasers are aptly discussed to give a complete overview of Electromagnetic Theory Modern Optics The practical part covers experiments which are on Carey Foster bridge Earth inductor deflection and vibration magnetometer study of variation of magnetic field along the axis of a single and double coil Ballistic galvanometer based experiments to determine high resistance low resistance self inductance and comparison of capacitances are explained in detail **B. Sc. Practical Physics** C. L. Arora, 1970 **Bsc. Practical Physics** Singh Hamam, 1980 B.Sc. Practical Physics (LPSPE) Singh Harnam & Hemne P.S., FOR B SC STUDENTS OF ALL INDIAN UNIVERSITIES **Physics Practical for B.Sc./B.Tech** R C Tiwari, 2022 *Practical Physics* R. K. Shukla, 2006 *PRACTICAL COURSE IN PHYSICS* P. P. Bardapurkar, N. P. Barde, S. A. Arote, 2019-08 The standard of the book is maintained keeping the level of First Year B Sc course in terms of the steps required for performing the experiments However the format of procedures to perform the experiment observation tables theory viva voce questionnaires etc are provided wherever it is necessary for deep understanding Utmost care has been taken to explain the steps for performing practicals with illustrative figures and circuit diagrams used where absolutely required Practical Physics , 2015 *A Systematic Geography of America* George William Webb, 1911 **Practical Physics** K. K. Dey & B. N. Dutta, 2008-01-01 **The Calendar** University of Calcutta, 1919 *Nature* Sir Norman Lockyer, 1916 **Which Degree Guide** , 2003 *Calendar* University of Calcutta, 1919 Includes Examination Papers **Indian Books in Print** , 2002 *The Global Student Experience* Camille Kandiko, Mark Weyers, 2013-03-18 There are 100 million students in higher education throughout the world today This collection provides some indication of what are they are learning and of their wider experiences It also outlines the changing global context of provision for undergraduate students as countries and universities respond to what they anticipate will be new demands f **Which Degree in Britain** , 1999 A comprehensive guide to full time degree courses institutions and towns in Britain

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