

### Third exercise: (7 ½ points)

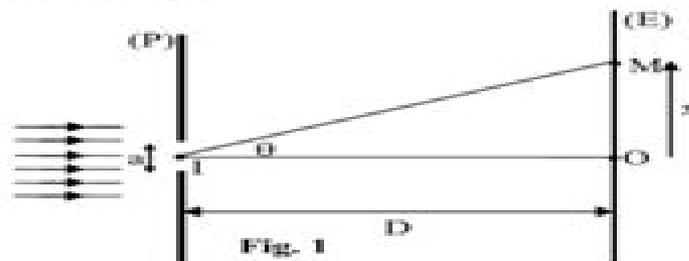
#### Diffraction and interference of light

A laser source emits a monochromatic cylindrical beam of light of wavelength  $\lambda = 640$  nm in air.

##### A – Diffraction

This beam falls normally on a vertical screen (P) having a horizontal slit  $F_1$  of width  $a$ . The phenomenon of diffraction is observed on a screen (E) parallel to (P) and situated at a distance  $D = 4$  m from (P).

Consider on (E) a point M so that M coincides with the second dark fringe counted from O, the center of the central bright fringe.  $OM = \theta$  ( $\theta$  is very small) is the angle of diffraction corresponding to the second dark fringe (Fig. 1).



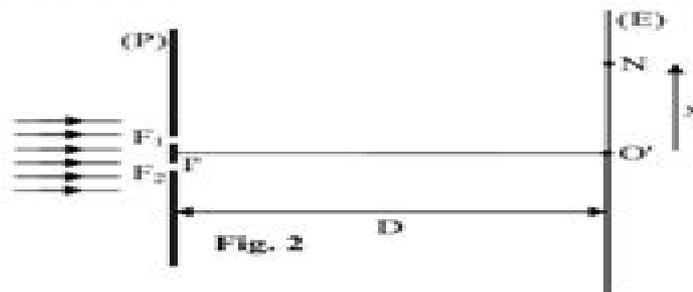
- 1) Write the expression of  $\theta$  in terms of  $a$  and  $\lambda$ .
- 2) Determine the expression of  $OM = x$  in terms of  $a$ ,  $D$  and  $\lambda$ .
- 3) Determine the value of  $a$  if  $OM = 1.28$  cm.
- 4) We replace the slit  $F_1$  by another slit  $F_1'$  of width 100 times larger than that of  $F_1$ . What do we observe on the screen (E)?

##### B – Interference

We cut in (P) another slit  $F_2$  identical and parallel to  $F_1$  so that the distance  $F_1F_2 = a' = 1$  mm. The laser beam falls normally on the two slits  $F_1$  and  $F_2$ . We observe on (E) a system of interference fringes.

$O'$  is the orthogonal projection of the midpoint  $I'$  of  $F_1F_2$  on (E) (Fig. 2).

- 1) a) Due to what is the phenomenon of interference?  
b) Describe the fringes observed on (E).
- 2) Consider a point N on (E) so that  $O'N = x$ .
  - a) Write the expression of the optical path difference  $\delta = F_2N - F_1N$  in terms of  $a'$ ,  $x$  and  $D$ .
  - b) If N is the center of a dark fringe of order  $k$ , write the expression of the optical path difference  $\delta$  at N in terms of  $\lambda$  and  $k$ .
  - c) Deduce the expression of  $x$  in terms of  $a'$ ,  $D$ ,  $k$  and  $\lambda$ .
  - d) Knowing that the interfringe distance  $i$  is the distance between the centers of two consecutive dark fringes, deduce then the expression of  $i$  in terms of  $\lambda$ ,  $D$  and  $a'$ .
- 3) The whole set up of figure 2 is immersed in water of index of refraction  $n$ .
  - a) i) The interfringe distance  $i$  varies and becomes  $i'$ . Why?  
ii) Show that  $i' = \frac{i}{n}$ .
  - b) We move (E) parallel to (P) and away from it by a distance  $d = \frac{4}{3}$  m. We notice that the interfringe distance takes again the initial value  $i$ . Deduce then the value of  $n$ .



# 31 Diffraction And Interference Exercise Answers

**Raymond A. Serway**



### 31 Diffraction And Interference Exercise Answers:

*Six Ideas That Shaped Physics: Unit Q - Particles Behaves Like Waves* Thomas A Moore,2003-01-09 SIX IDEAS THAT SHAPED PHYSICS is the 21st century's alternative to traditional encyclopedic textbooks Thomas Moore designed SIX IDEAS to teach students to apply basic physical principles to realistic situations to solve realistic problems to resolve contradictions between their preconceptions and the laws of physics to organize the ideas of physics into an integrated hierarchy **Light and Video Microscopy** Randy O. Wayne,2010-07-28 The purpose of this book is to provide the most comprehensive easy to use and informative guide on light microscopy Light and Video Microscopy will prepare the reader for the accurate interpretation of an image and understanding of the living cell With the presentation of geometrical optics it will assist the reader in understanding image formation and light movement within the microscope It also provides an explanation of the basic modes of light microscopy and the components of modern electronic imaging systems and guides the reader in determining the physicochemical information of living and developing cells which influence interpretation Brings together mathematics physics and biology to provide a broad and deep understanding of the light microscope Clearly develops all ideas from historical and logical foundations Laboratory exercises included to assist the reader with practical applications Microscope discussions include bright field microscope dark field microscope oblique illumination phase contrast microscope photomicrography fluorescence microscope polarization microscope interference microscope differential interference microscope and modulation contrast microscope **Notes, Problems and Laboratory Exercises in Mechanics, Sound, Light, Thermo-mechanics and Hydraulics** Halsey Dunwoody,1917 **Practical exercises in light; being a laboratory course for schools of science and colleges** Reginald S Clay,1910 **Practical exercises in light** Reginald Stanley Clay,1902 *Entelek Computer-based Physics Lab* Richard A. Rader,1975 The Programs Include Snell's Law Kepler's Second Law the Simple Pendulum Speed Acceleration Momentum Kinetic Energy Charge of Ions Focal Length Simple Electrical Circuits Wavelength of Light Mass of the Electron **Annual Register** University of Chicago,1911 *Energy Research Abstracts*, 1993 *Fundamentals of Physics, , Problem Supplement No. 1* David Halliday,Robert Resnick,Jearl Walker,2000-06-06 No other book on the market today can match the success of Halliday Resnick and Walker's Fundamentals of Physics In a breezy easy to understand style the book offers a solid understanding of fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving **College Physics Essentials, Eighth Edition (Two-Volume Set)** Jerry D. Wilson,Anthony J. Buffa,Bo Lou,2022-02-28 This new edition of College Physics Essentials provides a streamlined update of a major textbook for algebra based physics The first volume covers topics such as mechanics heat and thermodynamics The second volume covers electricity atomic nuclear and quantum physics The authors provide emphasis on worked examples together with expanded problem sets that build from conceptual understanding to numerical solutions and real world applications to increase reader engagement Including over 900 images

throughout the two volumes this textbook is highly recommended for students seeking a basic understanding of key physics concepts and how to apply them to real problems

**Fundamentals of Physical Science** Konrad Bates Krauskopf, Arthur Beiser, 1971 Matter in motion Electricity and magnetism The atom Atoms in combination Basic chemistry Basic geology Mathematics refresher

**Fundamentals of Physics, , Problem Supplement No. 1** Jearl Walker, 2001 This is a supplement to the text *Fundamentals of Physics* 6th Ed This supplement contains additional sample problems checkpoint style questions organizing questions discussion questions and new exercises and problems

**Nature** Sir Norman Lockyer, 1899 Nature, 1899

**Physics for Scientists & Engineers** Raymond A. Serway, 1996 This best selling calculus based text is recognized for its carefully crafted logical presentation of the basic concepts and principles of physics **PHYSICS FOR SCIENTISTS AND ENGINEERS** Sixth Edition maintains the Serway traditions of concise writing for the students carefully thought out problem sets and worked examples and evolving educational pedagogy This edition introduces a new co author Dr John Jewett at Cal Poly Pomona known best for his teaching awards and his role in the recently published **PRINCIPLES OF PHYSICS** Third Edition also written with Ray Serway Providing students with the tools they need to succeed in introductory physics the Sixth Edition of this authoritative text features unparalleled media integration and a newly enhanced supplemental package for instructors and students

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**The Ideas of Physics** Douglas C. Giancoli, 1986 Introduces fundamental concepts of physics through observation everyday experiences and suggested experiments

**A Standard Dictionary of the English Language** Isaac Kaufman Funk, 1906

## **31 Diffraction And Interference Exercise Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**31 Diffraction And Interference Exercise Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents 31 Diffraction And Interference Exercise Answers**

1. Understanding the eBook 31 Diffraction And Interference Exercise Answers
  - The Rise of Digital Reading 31 Diffraction And Interference Exercise Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying 31 Diffraction And Interference Exercise Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook 31 Diffraction And Interference Exercise Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 31 Diffraction And Interference Exercise Answers
  - Personalized Recommendations
  - 31 Diffraction And Interference Exercise Answers User Reviews and Ratings

- 31 Diffraction And Interference Exercise Answers and Bestseller Lists
- 5. Accessing 31 Diffraction And Interference Exercise Answers Free and Paid eBooks
  - 31 Diffraction And Interference Exercise Answers Public Domain eBooks
  - 31 Diffraction And Interference Exercise Answers eBook Subscription Services
  - 31 Diffraction And Interference Exercise Answers Budget-Friendly Options
- 6. Navigating 31 Diffraction And Interference Exercise Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - 31 Diffraction And Interference Exercise Answers Compatibility with Devices
  - 31 Diffraction And Interference Exercise Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 31 Diffraction And Interference Exercise Answers
  - Highlighting and Note-Taking 31 Diffraction And Interference Exercise Answers
  - Interactive Elements 31 Diffraction And Interference Exercise Answers
- 8. Staying Engaged with 31 Diffraction And Interference Exercise Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 31 Diffraction And Interference Exercise Answers
- 9. Balancing eBooks and Physical Books 31 Diffraction And Interference Exercise Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 31 Diffraction And Interference Exercise Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 31 Diffraction And Interference Exercise Answers
  - Setting Reading Goals 31 Diffraction And Interference Exercise Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 31 Diffraction And Interference Exercise Answers
  - Fact-Checking eBook Content of 31 Diffraction And Interference Exercise Answers
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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