

Wave Optics

★ Huygen's Principal of Secondary waves

$$i = r$$

i - incident angle
 r - reflected angle
 n_{12} - refractive index

$$\frac{\sin i}{\sin r} = \frac{v_1}{v_2} = \text{constant}$$

$$n_{21} = \frac{v_1}{v_2} = \frac{\text{velocity of light in first medium}}{\text{velocity of light in second medium}}$$

$$v = \frac{c}{n}$$

n - refractive index
 c - velocity of light

$$\frac{\lambda_1}{\lambda_2} = \frac{v_1}{v_2} = n_{21}$$

★ Optical Path

$$c \times t = nd$$

d - distance

★ Doppler Effect

change in frequency

$$\frac{\Delta \nu}{\nu} = - \frac{v_{\text{radical}}}{c}$$

velocity

★ Refractive index of water relative to air

$$n = \frac{\lambda}{\lambda_w} \quad \text{OR} \quad \lambda_w = \frac{\lambda}{n}$$

★ Interference

$$I = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$$

★ Positions of Bright fringes

$$x = n \frac{D\lambda}{d}$$

★ Fringe Width

$$\beta = \frac{D\lambda}{d}$$

★ Positions of Dark fringes

$$x = \left[\frac{n-1}{2} \right] \frac{D\lambda}{d}$$

★ Angular Fringe - Width

OR

★ Angular Path difference

$$\theta = \frac{\lambda}{d}$$

★ Displacement of fringe

$$x_0 = \frac{D(n-1)t}{d}$$

★ thickness of plate

$$t = \frac{x_0 \lambda}{D(n-1)}$$

★ Diffraction of light due to a single slit

$$e \sin \theta = \pm m \lambda$$

$$e \sin \theta = (2m+1) \frac{\lambda}{2}$$

★ Angular width of Central maximum

$$2\theta = \frac{2\lambda}{e}$$

★ Linear width of Central maximum

$$2x = \frac{2\lambda \times f}{e}$$

★ Resolving power of Telescope

$$1.22 \frac{\lambda}{d}$$

★ Fresnel distance

$$Z_f = \frac{e^2}{\lambda}$$

★ Resolving power of microscope

$$\frac{1.22 \lambda}{2n \sin \alpha}$$

★ Brewster's law

$$\mu = \tan i_p$$

★ Coherent and non-coherent addition of waves

1. $I \propto a^2$ I - Intensity, a - amplitude

2. Coherent waves : No phase difference

displacement $y = 2a \cos \omega t$

Amplitude $2a$

Intensity $I = 4I_0$ where $I_0 \propto a^2$

The Wave Study Questions

National Science Foundation (U.S.)



The Wave Study Questions:

Heisenberg's Uncertainties and the Probabilistic Interpretation of Wave Mechanics Louis de Broglie, 2012-12-06 LOUIS DE BROGLIE AND THE SINGLE QUANTUM PARTICLE By A O Barut We have abundant evidence and testimony that Louis de Broglie deeply cared about the foundations the meaning and our understanding of quantum theory in general and of wave mechanics in particular So too did Erwin Schrodinger along with Einstein Bohr Dirac and Heisenberg For de Broglie and Schrodinger this preoccupation meant not simply the acceptance of a novel set of rules but a constant struggle and a search for complete clarity about the way in which the new theory fits into the great classical traditions of an objective physical world view We may call this a striving for physical rigor rigor in reasoning or intellectual rigor There is not only mathematical rigor inside an axiomatic system with which everybody agrees but there is and there should be rigor also in our concepts and methods To this kind of rigor belongs the unity the economy and simplicity and the consistency of physical theories naturally along with as complete and as clear an understanding of phenomena as possible No loose ends no proliferation of poorly tested and phenomenological entities no bending of logic and compromise and no handwaiving arguments can be tolerated Unfortunately this kind of rigor seems to be missing in today s forefront of fundamental physical theories viz particle or high energy physics

Theosophical Lectures and Answers to Theosophical Questions Annie Besant, 1907

A Student's Guide Through the Great Physics Texts Kerry Kuehn, 2015-12-14 This book provides a chronological introduction to the electromagnetic theory of light using selected extracts from classic texts such as Gilbert s De Magnete Franklin s Experiments and Observations on Electricity and Huygens Treatise on Light Particular attention is given to the works of Faraday Maxwell and Heaviside scientists who unified the formerly separate disciplines of electricity magnetism and light Their electromagnetic theory developed during the 19th century would lead to the invention of modern radar electrical power grids and telecommunication networks Each chapter of this book begins with a short introduction followed by a reading selection Carefully crafted study questions draw out key points in the text and focus the reader s attention on the author s methods analysis and conclusions Numerical and laboratory exercises at the end of each chapter test the reader s ability to understand and apply key concepts from the text Electricity Magnetism and Light is the third of four volumes in A Student s Guide through the Great Physics Texts This book grew out of a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics This book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy It can also serve as a textbook for advanced high school or home schooled students or as a thematically organized source book for scholars and motivated lay readers In studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation

Summaries of Projects Completed National Science Foundation (U.S.), **Summaries of Projects Completed in Fiscal Year ...** , 1979

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important part of language helping to explain relationships between words in a sentence prepositional phrases examples include behind the tree inside the box on the roof

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web mar 28 2012 prepositional phrases exercise march 28 2012 complete the following sentences using appropriate prepositional phrases 1 i would rather have coffee tea instead of instead from 2 the rains we went out in spite of despite of in spite 3 fire break glass to escape in case

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web print worksheet 1 a prepositional phrase must have a preposition and which of the following modifier conjunction object of the preposition proper noun 2 identify the prepositional phrase

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web feb 17 2022 exercise 1 match the words with their meaning exercise 2 watch the video prepositional phrases to answer the following questions with examples state the prepositional phrase patterns with examples list the functions of prepositional phrases with examples expand i watched the rain fall using prepositional phrases