

**IB PHYSICS HL
MULTIPLE CHOICE REVIEW
WAVES & VIBRATIONS**

1. A sound emitting source moves along a straight line with speed v relative to an observer at rest.



The speed of sound relative to the medium is c . The observer measures the speed of sound emitted by the source as

- A. c B. $c + v$ C. $c - v$ D. $v - c$

(1)

2. The diagram below shows ocean waves incident on a stone barrier protecting boats anchored behind it.



The boats could still be at risk of damage by waves mainly as a result of

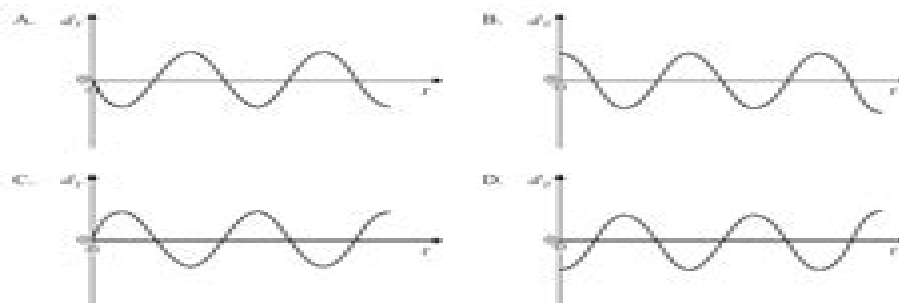
- A. refraction. B. standing waves. C. diffraction. D. reflection.

(1)

3. Two particles X and Y are situated a distance $\frac{1}{2}\lambda$ apart on a stationary wave of wavelength λ . The variation with time t of the displacement d_x of X is shown below.



Which **one** of the following correctly shows the variation with time t of the displacement d_y of particle Y?



(1)

Holt Physics Review Answers Vibrations And Waves

H. John Pain, Patricia Rankin



Holt Physics Review Answers Vibrations And Waves:

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Vibrations and Waves Benjamin Crowell, 2000 *The Physics of Vibrations and Waves* Herbert John Pain, 1968 *The Physics of Vibrations and Waves* ,1980 **Vibrations and Waves** A.P. French, 1971-09-30 The M I T Introductory Physics Series is the result of a program of careful study planning and development that began in 1960 The Education Research Center at the Massachusetts Institute of Technology formerly the Science Teaching Center was established to study the process of instruction aids thereto and the learning process itself with special reference to science teaching at the university level Generous support from a number of foundations provided the means for assembling and maintaining an experienced

staff to co operate with members of the Institute s Physics Department in the examination improvement and development of physics curriculum materials for students planning careers in the sciences After careful analysis of objectives and the problems involved preliminary versions of textbooks were prepared tested through classroom use at M I T and other institutions re evaluated rewritten and tried again Only then were the final manuscripts undertaken

Vibrations and Waves in Physics

Iain G. Main, 1993-07-30 For the third edition of this successful undergraduate text the author has made a number of changes to improve the presentation and clarify some of the arguments and has also brought several of the applications up to date The new material includes an elementary descriptive introduction to the ideas behind the new science of chaos The overall objectives of the book are unchanged to lead the student to a thorough understanding of the basic concepts of vibrations and waves to show how these concepts unify a wide variety of familiar physics and to open doors to advanced topics which they illuminate Each section of the book contains a brief summary of its salient contents There are approximately 180 problems to which all numerical answers are provided together with hints for their solution This book is designed both for use as a text for an initial undergraduate course on vibrations and waves and for a reference at later stages when more advanced topics or applications are met

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