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10th PHYSICAL SCIENCE – WORKSHEETS

by Sri. P.Raghava Kumar

Refraction of Light at plane surfaces

WORK SHEET-3

Refraction of Light at plane surface

Check your understanding.

1. Refraction of light obeys _____ law
 - a) Faraday
 - b) Ampere
 - c) Snell
 - d) Hook
2. If the angle of incidence is equal to critical angle, then angle of refraction is _____
 - a) 60°
 - b) 70°
 - c) 80°
 - d) 90°
3. What happens if Angle of incidence is greater than critical angle____
 - a) Reflection, Refraction
 - b) Refraction
 - c) Total internal reflection
 - d) Refraction, total internal reflection.
4. Snell's law is expressed as ____
 - a) $\frac{n_1}{n_2} = \frac{v_2}{v_1}$
 - b) $\frac{n_1}{n_2} = \frac{v_1}{v_2}$
 - c) $\frac{n_1}{n_2} = \frac{\sin r}{\sin i}$
 - d) $\frac{n_1}{n_2} = \frac{\sin i}{\sin r}$
5. The principle involved in mirage formation ____
 - a) Reflection
 - b) Refraction
 - c) Total internal reflection
 - d) None
6. Which statement among the following is true. When light refracts through plane Rectangular glass slab.
 - a) $\angle i > \angle e$
 - b) $\angle i = \angle e$
 - c) $\angle i = \angle r$
 - d) $\angle i < \angle e$
7. Critical angle of Diamond is _____
 - a) 22.4°
 - b) 23.4°
 - c) 24.4°
 - d) 25.4°
8. If the angle of incidence increases. what happens to lateral shift?
 - a) Decreases
 - b) Increases
 - c) remains constant
 - d) First increases and then decreases

Grade 10 Physical Science Exemplar 2014

Michael Hoelscher



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High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-06-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic. Bolted connections are an integral feature of deep water well operations. High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors. It focuses on critical bolting bolts, studs, nuts, and fasteners used on critical connections.

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