
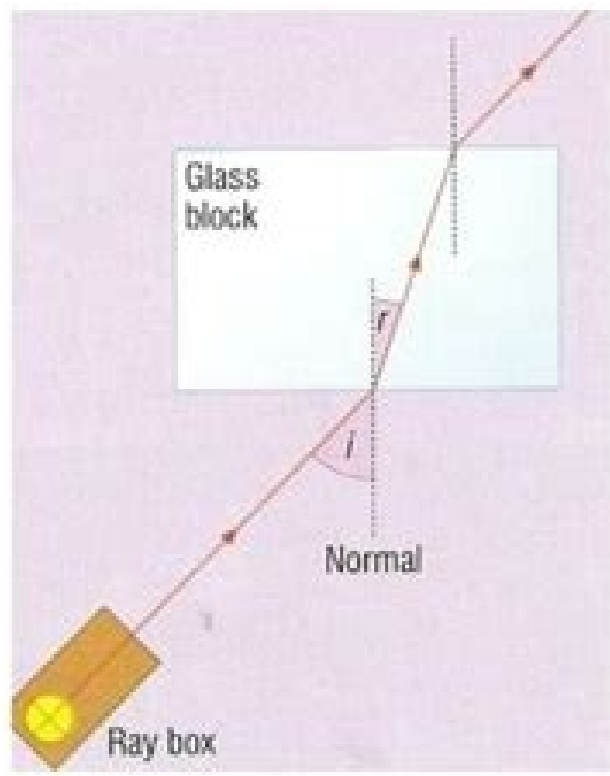


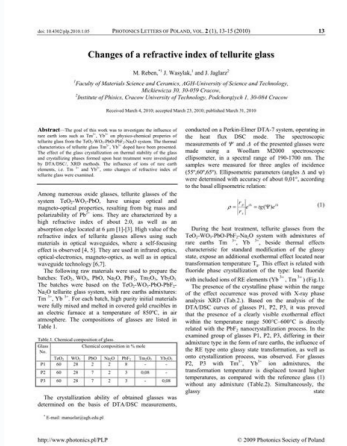
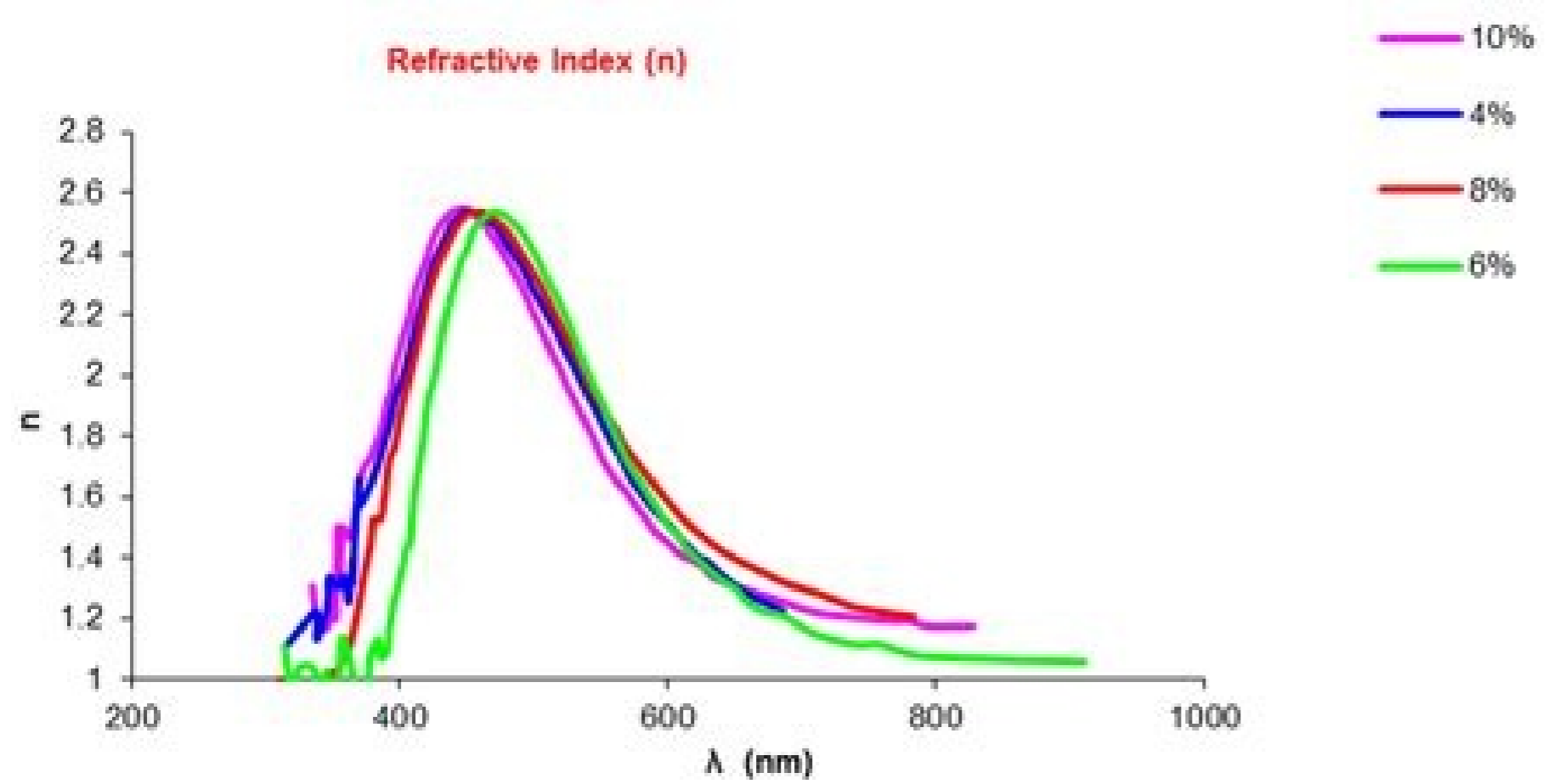
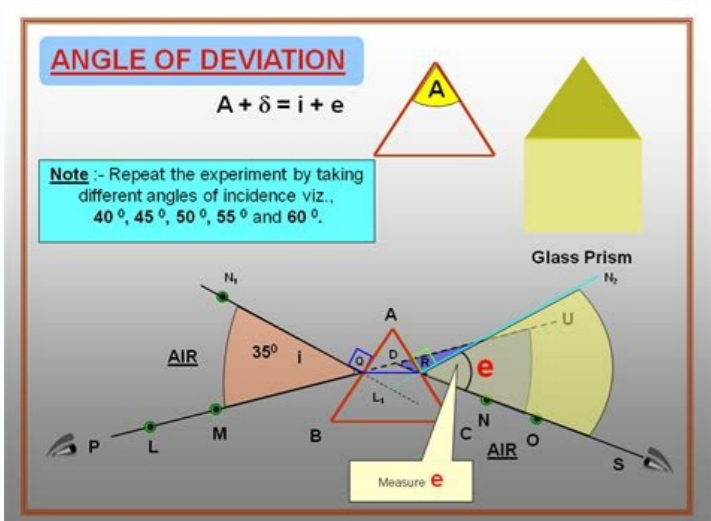
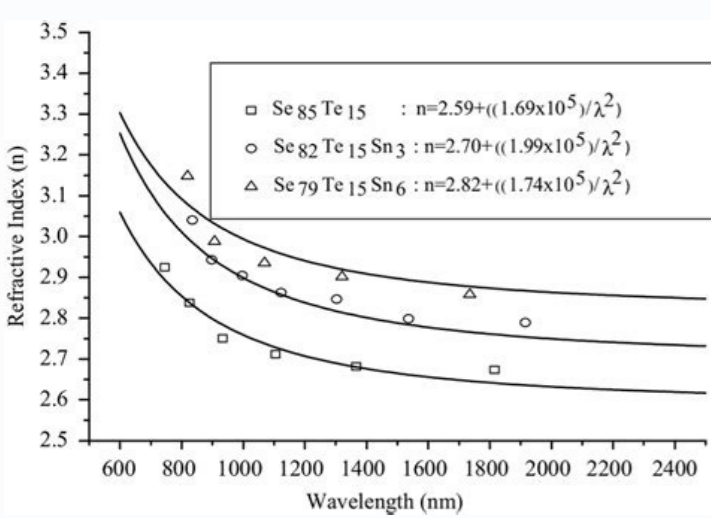
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An experiment to find the refractive index (n) of glass



1. Set up the equipment as shown in the diagram opposite
2. For an initial angle of incidence, i of 30° trace the path of the light ray.
3. Measure the angle refraction, r .
4. Calculate the refractive index using the formula: $n = \sin(i) / \sin(r)$.
5. Repeat for a range of angles between 10° and 80° .
6. Calculate the average value of n .



Refractive index of glass experiment errors. In an experiment refractive index of glass was observed to be 1.45 1.56. Measuring the refractive index of glass experiment. Experiment to determine the refractive index of a rectangular glass block. Refractive index of glass experiment class 12. Refractive index of glass block experiment. Refractive index of glass experiment discussion. Refractive index of glass experiment class 12 readings.

As the Incidence Angle (i) Has increased the Refraction Angle (r)... Thank you for your participation! Point. The refractive index of the perspex/glass was... Independent - Incidence angle (i) Dependent - Refrac angle (r) Controlled - list everything else here... 2 Illuminate a single incident ray on the block, mark your path and draw the incident ray with a water fly. 5 Draw a normal angle at the entry point, the Incidence Angle (i) and the Refraction Angle (r) using a protractor. The higher the refractive index, the slower the speed of light in this medium. Diagram. RESULT To bring a proper graph with $\sin r$ on the x axis and $\sin i$ on the y axis. Manipulate - Incidence angle (i) Record - Angle of refraction (r) MA© all 1 Place the perspex block on the white paper and trace the outline. RefIndex There is a number indicating how fast light travels in a transparent medium. 1- To investigate the relationship between the Incidence Angle (i) and the Reference Angle (r) 2- To determine the refractive index of a transparent medium, for example, perspex or glass. The refractive index (n) of a transparent material can be determined by measuring the Incidence Angle and the Reflection Angle when a ray of light enters or leaves the material. Variables. Conclusion. 3 Mark the path of the ray that emerges from the block, draw the ray with a rA @gua. 4 Remove the block, turn on the entry points and use them to show the path of light inside the block. 6 Repeat for a range of Incidence Angles. Theory. What to measure and how? Gradient = rise / run = $\sin i / \sin r = n$ Calculate the gradient of the graph to obtain the refractive index of the transparent material.

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