



PHYSICS

BOOKS - NAVBODH PHYSICS (HINGLISH)

EXPERIMENTS AND DIAGRAMS

Elasticity

1. Describe a method to determine Young's modulus of the material of a thin wire.



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Wave Motion

1. Describe with a neat diagram Quinche's method to demonstrate interference of sound waves and to determine the wavelength and speed of the sound waves.



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Interference And Diffraction

1. Describe an experiment to demonstrate transverse nature of light.



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Question Answer

1. Describe biprism experiment to calculate the wavelength of a monochromatic light. Draw the necessary ray diagram.

If the critical angle of a medium is $\sin^{-1}\left(\frac{3}{5}\right)$,
find the polarising angle.



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2. In Kelvin's method of finding the resistance of a galvanometer, we



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3. Describe the use of a potentiometer to compare the emf's of two cells by the direct

method (i.e., connecting them separately).



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4. Describe the use of a potentiometer to compare the emf's of two cells by the sum difference method.



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5. The internal resistance of a cell by potentiometer is given by



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6. Draw a neat labelled diagram for Davisson and Germer experiment, for diffraction of electron wave.



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7. Draw the circuit diagram for studying the characteristics of a transistor in common emitter configuration. Explain briefly and show

how input and output characteristics are drawn.



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Current Electricity

1. Explain the determination of unknown resistance using meter bridge.



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Electrons And Photons

1. With the help of a circuit diagram, describe the experiment to study the characteristics of photoelectric effect.



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Atoms Molecules And Nuclei

1. With the help of a neat labelled diagram, describe the Geiger-Marsden experiment.



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