

LAB 9: Polarization

Results (Polarization)

The polarimeter is used for the determination of the concentration of optically active substances. For this a sodium light with a wavelength of 589 (nm) is linearly polarized by means of a polarizer. This light passes through the solution to be investigated and is observed through an analyzer. Optically active substances rotate the polarization plane. By measuring the rotational angle by means of the analyzer, the concentration of the solution can now be calculated using the following relation :

$$s = \frac{\theta}{L \cdot c}$$

$$\rightarrow \theta = s \cdot L \cdot c \quad \rightarrow \text{slope} = \frac{\theta}{c}$$

$$\theta \propto L$$

$$\theta \propto s$$

a) Determination of the length of the tube(optical path)

$$L = 200 \text{ (mm)} = 2 \text{ (dm)}$$

b) Optical zeroing (calibration)

1. Switch on the sodium lamp and wait a short time for it to warm up.
2. Turn the analyzer with the adjustment screw to 0° so that the circle is uniformly lit (**dark**), i.e. so that no central line is visible. When the analyzer is turned about the zero position the central line and the two edge areas become light or dark. For this reason deviations from the zero position can very easily be observed.

c) Filling a round cuvette (tube)

1. Hold the tube vertical so that the thicker part is at the top.
2. Take off the upper screw ring; remove the internal cap, sealing ring and glass disc.
3. Fill the tube with the liquid to be investigated with as few bubbles as possible.
4. Replace the glass disc, sealing ring and internal cap and tighten with the screw ring.

d) Determination of the angle of rotation (θ)

1. Place the tube with the liquid to be investigated into the sample chamber Turn the analyzer with the adjustment screw in such a way that the observed circle is again uniformly (**dark**).
2. Read the angle of rotation θ from the scale by means of the vernier scale

$c \text{ (}\% \text{)}$	$\theta \text{ (}^\circ \text{)}$
0%	$\theta = 0$
5%	3.8
10%	6.6
15%	10.3
20%	13.8
Unknown	5.2

Slope = 0.7
 unknown $\Rightarrow c = 7.3$
 $\theta = 5.2$

$$L = 200 \text{ mm} = 2 \text{ dm}$$

$$s = \frac{\text{Slope}}{L} = \frac{0.7}{2} = 0.35 \text{ (dm)}^{-1}$$

Polarization Answers Sheet

CO Houle



Polarization Answers Sheet:

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Krane,2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

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exercises with solutions and programming drills that bring the ideas of quantum computing alive for today's computer science students and researchers

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Projects of the Pollution Control Analysis Section Ernst P. Hall, 1972

Ammonia Removal in a Physical-chemical Wastewater Treatment Process Robert A. Barnes, Peter F. Atkins, Dale A. Scherger, 1972

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The Psychology of Group Perception Vincent Yzerbyt, Olivier Corneille, 2004-08-02 This groundbreaking work by leading social psychologists who have all contributed in important ways to the psychology of group perception focuses in particular on three interrelated issues 1 whether groups are seen to be diverse or relatively homogeneous 2 whether groups are seen as real and stable or only transitory and ephemeral and 3 whether group membership derives from some essential quality of the members or rather is based on social constructions

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The Innovation Algorithm Genrikh Saulovich Al'tshuller, 1999 Genrich Altshuller's *The Innovation Algorithm* is a milestone in the development of the Theory of Inventive Problem Solving TRIZ It is the result of more than 20 years of research and analysis Here Altshuller details ARIZ TRIZ's problem solving algorithm that can produce innovation and creativity of the highest order Saturated with profound thoughts insights and convincing examples this book is regarded by many as Altshuller's magnum opus his handbook for a creative and technological revolution Back cover

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