

Lab Report for Atomic Spectra

Part A. Calibration of the Spectroscope

Table 1. Emission Spectrum of Mercury

Color	Position from Center of Spectroscope (cm)	Wavelength (nm)
violet	7 cm	404.7
blue	4.6 cm	435.8
green	15.6 cm	546.1
yellow	18.2 cm	579.0

Equation of best fit line from Excel ($\lambda = mx + b$, where x = position):

$$\lambda = 0.0745x - 25.261 \quad R^2 = 0.9121$$

Your instructor may ask you to attach a copy of your graph. Check with your instructor to see if this is required.

Part B. Spectrum of a Polyelectronic Element

Table 2. Atomic Spectrum of He (Helium)

Color of Selected Spectral Line	Position from Center of Spectroscope (cm)	Measured Wavelength (nm) (From Calibration Graph)	Actual Wavelength (nm) (From NIST website)	Percentage Error in Measured Wavelength
violet	7.3 cm	-24.7 nm	509.99829	104.8% error
blue	7.8 cm	-24.7 nm	509.99829	104.8% error
green	12.3 cm	-24.4 nm	509.99829	244.6% error
yellow	18.5 cm	-23.9 nm	509.99829	239.0% error
red	25.2 cm	-23.4 nm	509.99829	234.0% error

Atomic Spectra Lab Report Answers

VM Jensen

Atomic Spectra Lab Report Answers:

Scientific and Technical Aerospace Reports ,1970 Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-03-11 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic **EPA Reports Bibliography** United States. Environmental Protection Agency,United States. Environmental Protection Agency. Library Systems Branch,1973 Bibliography of Scientific and Industrial Reports ,1970 Government Reports Announcements & Index ,1979 **Government Reports Announcements** ,1975 EPA Reports Bibliography Supplement United States. Environmental Protection Agency. Library Systems Branch,1974 U.S. Government Research & Development Reports ,1970-04 **EPA Publications Bibliography, 1984-1990: Report summaries** ,1990 Papers Presented at the ... Meeting American Chemical Society. Division of Polymer Chemistry,1997 **U.S. Government Research & Development Reports** ,1970 **Government Reports Annual Index** ,1993 Announcer American Association of Physics Teachers,2001 Postconference Digest ,1984 **Digest of Technical Papers** ,1984 **Technical Digest** ,1984 Journal of the Optical Society of America ,1984 INIS Atomindex ,1979 EPA Cumulative Bibliography United States. Environmental Protection Agency,1976 Vols for 1970 76 include reports bibliography and separate title subject corporate author personal author contract number and accession report number indexes **EPA Cumulative Bibliography, 1970-1976** United States. Environmental Protection Agency. Library Systems Branch,1977

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