

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):

$$\lambda = 0.0745x - 25.261$$

$$R^2 = 0.9121$$

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	2446% error
yellow	18.5 cm	-23.9 nm	509.99829	2390%
red	25.2 cm	-23.4 nm	509.99829	2340%

Atomic Spectra Lab Report Answers

Jessica J Manson



Atomic Spectra Lab Report Answers:

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Table of Contents Atomic Spectra Lab Report Answers

1. Understanding the eBook Atomic Spectra Lab Report Answers
 - The Rise of Digital Reading Atomic Spectra Lab Report Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Atomic Spectra Lab Report Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Atomic Spectra Lab Report Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Atomic Spectra Lab Report Answers
 - Personalized Recommendations
 - Atomic Spectra Lab Report Answers User Reviews and Ratings
 - Atomic Spectra Lab Report Answers and Bestseller Lists
5. Accessing Atomic Spectra Lab Report Answers Free and Paid eBooks

- Atomic Spectra Lab Report Answers Public Domain eBooks
- Atomic Spectra Lab Report Answers eBook Subscription Services
- Atomic Spectra Lab Report Answers Budget-Friendly Options
- 6. Navigating Atomic Spectra Lab Report Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Atomic Spectra Lab Report Answers Compatibility with Devices
 - Atomic Spectra Lab Report Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Atomic Spectra Lab Report Answers
 - Highlighting and Note-Taking Atomic Spectra Lab Report Answers
 - Interactive Elements Atomic Spectra Lab Report Answers
- 8. Staying Engaged with Atomic Spectra Lab Report Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Atomic Spectra Lab Report Answers
- 9. Balancing eBooks and Physical Books Atomic Spectra Lab Report Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Atomic Spectra Lab Report Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Atomic Spectra Lab Report Answers
 - Setting Reading Goals Atomic Spectra Lab Report Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Atomic Spectra Lab Report Answers
 - Fact-Checking eBook Content of Atomic Spectra Lab Report Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Atomic Spectra Lab Report Answers Introduction

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