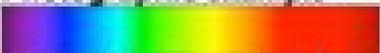
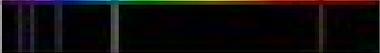


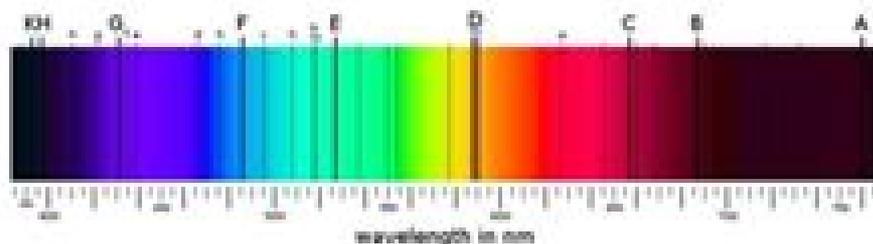
# Spectral Analysis

Worksheet

## Types of spectra:

Type of spectrum	Photographic example
Continuous (or continuum)	
Absorption (dark line)	
Emission (bright line)	

Here is a spectrum with many of the known spectral lines.

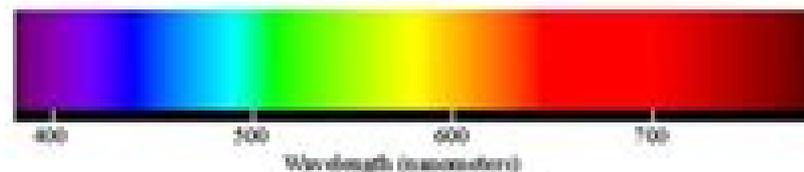


Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O <sub>2</sub>	844.765	v	Fe	485.763
Z	O <sub>2</sub>	822.694	w	H $\beta$	486.134
A	O <sub>2</sub>	779.379	u	Fe	466.814
B	O <sub>2</sub>	686.719	t	Fe	438.355
C	H $\alpha$	656.281	Q	H $\gamma$	434.047
e	O <sub>2</sub>	627.641	G	Fe	430.790
D <sub>1</sub>	Na	589.592	G	Ca	430.774
D <sub>2</sub>	Na	589.595	h	H $\delta$	430.175
D <sub>3</sub> or d	H $\alpha$	587.5622	H	Ca	396.847
e	H $\gamma$	544.873	K	Ca	395.348
E <sub>1</sub>	Fe	527.659	L	Fe	382.044
h <sub>1</sub>	Mg	518.342	N	Fe	358.123
h <sub>2</sub>	Mg	518.279	P	Zr	356.132
h <sub>3</sub>	Fe	514.891	T	Fe	352.108
h <sub>4</sub>	Fe	514.891	i	Si	299.444
h <sub>5</sub>	Mg	516.733			

- What colour is a photon of light with wavelength
  - 450 nm \_\_\_\_\_
  - 700 nm \_\_\_\_\_
  - 523 nm \_\_\_\_\_
  - 560 nm \_\_\_\_\_

- What colour is the emission of hydrogen-alpha, H $\alpha$ ?

- Draw the main spectrum lines for a star containing Iron and Hydrogen. (note: Some elements have more than one absorption line)



- Draw the Emission Lines on a spectrum for a Magnesium lamp. Insert a wavelength value.



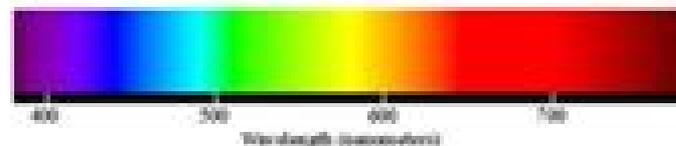
- A Nebula of mainly Hydrogen and Mercury (unlikely) is between a star and the earth.

- What happens to the light as it passes through the nebula

\_\_\_\_\_

\_\_\_\_\_

- The Star is mainly hydrogen and Helium. Complete the spectrum



# Analysis Of Spectral Lines Answers

**D Kirk**



## Analysis Of Spectral Lines Answers:

*The Atom and the Bohr Theory of Its Structure* Helge Holst, Hendrik Anthony Kramers, 1923      *Radiation Transport in Spectral Lines* R.G. Athay, 2012-12-06 The usual book on the theory of spectral line formation begins with an in depth discussion of radiation transfer including the elegant methods of obtaining analytical solutions for special cases and of the physics of line broadening Neither of those features will be found in this book It is assumed that the reader is already familiar with the essentials of transport theory and of line broadening and is ready to investigate some of the particular applications of the theory to the flow of line photons through the outer layers of a star or other tenuous media The main thrust of this book is toward the compilation and presentation of a vast quantity of computational material available to the author in the form of computer output The material presented represents a highly filtered sample of the published work in this subject plus an extensive set of previously unpublished results To present large quantities of computer output in an intelligible and efficient way is a difficult task for which I have found no really satisfactory solution Chapters III and IV in particular contain almost exclusively this type of presentation The reader may find these chapters somewhat tedious because of the level of condensation of the material I have tried to reach a reasonable balance between over condensation and excessive detail which in the long run may be irrelevant

*A Class-book of Chemistry ... Rewritten and Revised, Etc* Edward Livingston Youmans, 1876      **A Class-book of Chemistry on the Basis of the New System** Youmans (Edward Livingston), 1876      *A Class-book of Chemistry* Edward Livingston Youmans, 1877      *Publications of the Department of Astronomy, The University of Texas at Austin* University of Texas. Department of Astronomy, University of Texas at Austin. Department of Astronomy, 1964 Consists of articles reprinted from various journals      **Early Responses to the Periodic System** Masanori Kaji, Helge Kragh, Gabor Pallo, 2015-01-29 A collection of comparative studies on the reception response and appropriation of the periodic system of elements in eleven countries      *The Atomic Scientists* Henry A. Boorse, Lloyd Motz, Jefferson Hane Weaver, 1989-05-31 Traces the history of the atom through detailed biographies of its famous and lesser known proponents

*The Progress of Atomic Theory* Albert Cushing Crehore, 1926      **The Pulpit**, 1900      **The American Catholic Quarterly Review** James Andrew Corcoran, Patrick John Ryan, Edmond Francis Prendergast, 1888      *The Principles of Chemistry* Dmitry Ivanovich Mendeleev, 1902      *Nature* Sir Norman Lockyer, 1909      *The British Journal of Photography* William Crookes, T.A. Malone, George Shadbolt, J. Traill Taylor, William Blanchard Bolton, Thomas Bedding, 1900      *Lectures Delivered Before the Chemical Society* Chemical Society (Great Britain), Jean-Baptiste Dumas, 1928 The first faraday lecture jubilee Consideration of some points in the teaching of chemistry The lifework of Liebig in experimental and philosophic chemistry with allusions to his influence on the development of the collateral sciences and of the useful arts On the constitution of matter in the gaseous state Modern developments of Faraday's theory of electricity Periodicals of the chemical elements Presentation of the Faraday medal to the Rt Hon John William Strutt third baron Rayleigh Elements and compounds

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1. Understanding the eBook Analysis Of Spectral Lines Answers
  - The Rise of Digital Reading Analysis Of Spectral Lines Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of Spectral Lines 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 Analysis Of Spectral Lines Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of Spectral Lines Answers
  - Personalized Recommendations
  - Analysis Of Spectral Lines Answers User Reviews and Ratings
  - Analysis Of Spectral Lines Answers and Bestseller Lists
5. Accessing Analysis Of Spectral Lines Answers Free and Paid eBooks

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

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