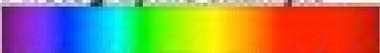
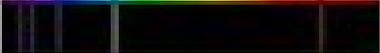


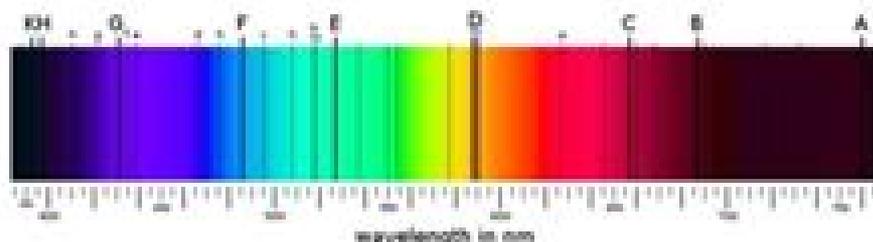
Spectral Analysis

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.

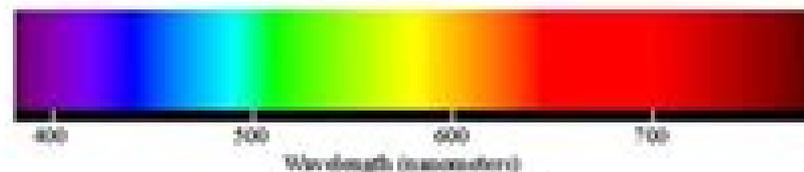


Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O ₂	844.765	v	Fe	485.763
Z	O ₂	822.694	P	H β	486.134
A	O ₂	779.379	d	Fe	466.814
B	O ₂	686.719	e	Fe	438.355
C	H α	656.281	G	Fe	437.790
a	O ₂	627.661	G	Ca	430.774
D ₁	Na	589.592	h	H δ	410.175
D ₂ or d	H α	587.5622	H	Ca	396.847
e	H γ	544.813	K	Ca	395.368
E ₁	Fe	527.659	L	Fe	382.044
h ₁	Mg	518.342	N	Fe	358.123
h ₂	Mg	517.279	P	Zr	356.132
h ₃	Fe	514.891	T	Fe	352.108
h ₄	Fe	514.891	i	Si	299.444
h ₅	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 α ?

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



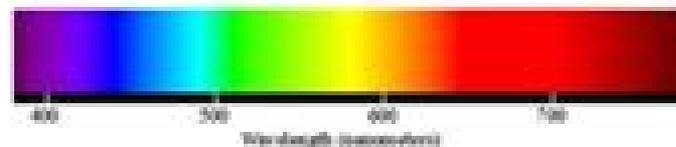
- Draw the Emission Lines on a spectrum for a Magnesium lamp. Insert a wavelength value.



- 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

Camilla Rothe



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 Principles of chemistry pt. 4** Dmitry Ivanovich Mendeleev, 1902 The American Catholic Quarterly Review James Andrew Corcoran, Patrick John Ryan, Edmond Francis Prendergast, 1888 *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 *Library of Universal Literature: The principles of chemistry*, 1901 The World of the Atom Henry Abraham Boorse, 1966 **The Principles of Chemistry** Dmitry Ivanovich Mendeleev, 1905 **The Celestial Symbol Interpreted** Herbert William Morris, 1883 **Library of Universal Literature: Science (15 vols.)**, 1901 **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

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