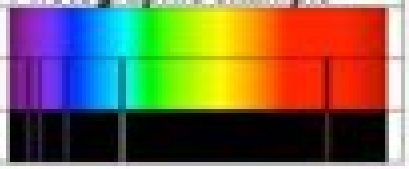
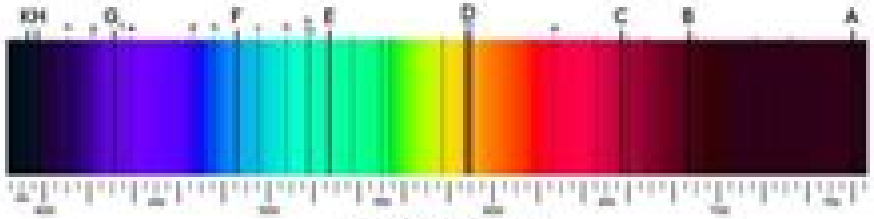
Spectral Analysis

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	898.765	e	Fe	495.761
Z	O_2	822.696	F	Hβ	486.134
A	O_2	759.370	d	Fe	466.814
B	O_2	686.719	e	Fe	438.355
C	Hα	656.281	G'	H_γ	434.047
a	O_2	627.661	G	Fe	430.790
D_1	Na	589.592	G	Ca	430.774
D_2	Na	588.995	h	Hδ	410.175
D_3 or d	He	587.5618	H	Ca	396.847
e	Hg	546.073	K	Ca	393.368
E_2	Fe	527.039	L	Fe	382.044
b_1	Mg	518.362	N	Fe	358.121
b_2	Mg	517.270	P	Ti	336.112
b_3	Fe	516.891	T	Fe	302.108
b_4	Fe	516.891	t	Ni	299.444
b_4	Mg	516.733			

1. What colour is a photon of light with wavelength

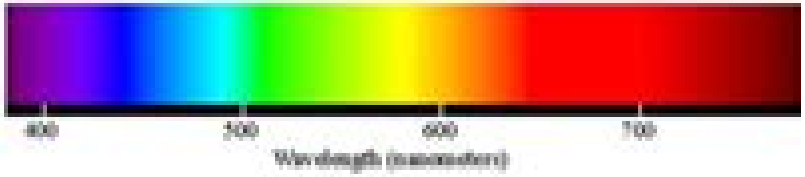
   a. 450 nm _____ b. 700 nm _____

   c. 523 nm _____ d. 560 nm _____

2. What colour is the emission of hydrogen-alpha, H_α?

3. Draw the main spectrum lines for a star containing Iron and Hydrogen.

   (note: Some elements have more than one absorption line)



4. Draw the Emission Lines on a spectrum for a Magnesium lamp. Insert a wavelength values

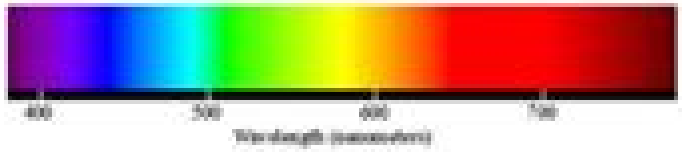
5. A Nebula of mainly Hydrogen and Mercury (unlikely) is between a star and the earth.

   a. What happens to the light as it passes through the nebula

   _____

   _____

   b. The Star is mainly Hydrogen and Helium. Complete the spectrum



Analysis Of Spectral Lines Answers

Liying Dong

Analysis Of Spectral Lines Answers:

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 dis cussion 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 investi gate 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 **The atom and the Bohr theory of its structure : an elementary presentation** Helge Holst,Hendrik Anthony Kramers,2023-07-11 The atom and the Bohr theory of its structure an elementary presentation by Helge Holst Hendrik Anthony Kramers translated by Rachel T Lindsay Robert Bruce Lindsay Published by Good Press Good Press publishes a wide range of titles that encompasses every genre From well known classics literary fiction and non fiction to forgotten or yet undiscovered gems of world literature we issue the books that need to be read Each Good Press edition has been meticulously edited and formatted to boost readability for all e readers and devices Our goal is to produce eBooks that are user friendly and accessible to everyone in a high quality digital format *Modern Spectrochemical Analysis of Metals* Volker B. E. Thomsen,1996-01-01 This book provides a fundamental introduction to spectroscopy Designed for both beginning and experienced users of spectrometers it provides the background necessary to understand the instrumentation Numerous examples and figures are utilized to illustrate the main points Most equations and formulas come with sample calculations to show actual usage Examples of authentic data from genuine spectrochemical analysis of selected metals can be found throughout Book jacket **CUET PG Forensic Science - Question Bank (2400 MCQs Chapterwise)** Mocktime Publication, 2400 MCQs CUET PG Question Bank Forensic Science CUEG PG Previous Papers CUET PG Syllabus CUET PG Exam Pattern **CSIR NET Chemical Science (Chemistry) [Question Bank] Chapter Wise Question Answer of All Units 4000 +[MCQ] As Per updated Syllabus** DIWAKAR EDUCATION HUB ,2021-10-25 CSIR NET Chemical Science Question Bank of 4000 Questions With Explanations from the 45 Chapters given in Syllabus Based on New Pattern For More Details Call Whats App 7310762592 7078549303 *Oswaal CBSE Question Bank Class 12 English Core, Physics, Chemistry & Biology (Set of 4 Books) Chapterwise and Topicwise Solved Papers For Board*

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Spectrometers. , *Science, Explanation, and Rationality* James H. Fetzer,2000 In this volume 13 philosophers illuminate and clarify the central problems to which Carl G Hempel was devoted The result offers readers an explanation of major developments in the philosophy of science particularly the development of logical empiricism as a major intellectual influence

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