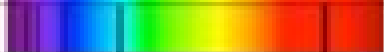


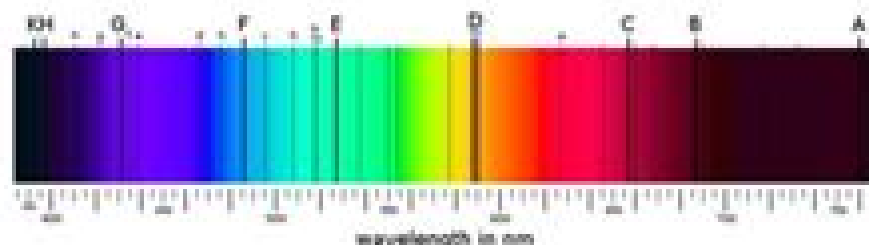
Spectral Analysis

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.



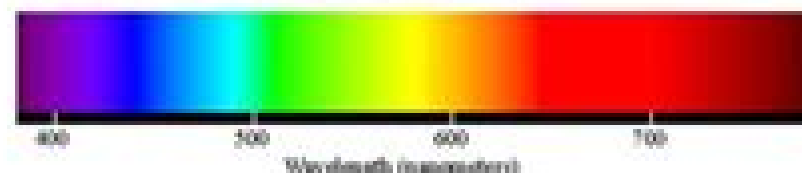
1. What colour is a photon of light with wavelength

- 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



Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O $_2$	844.663	a	Fe	485.763
Z	O $_2$	844.694	P	H β	486.134
A	O $_2$	777.419	d	Fe	486.834
B	O $_2$	686.719	e	Fe	438.355
C	H α	656.281	G	H γ	434.047
e	O $_2$	627.641	G	Fe	430.790
D $_1$	Na	589.592	G	Ca	430.774
D $_2$	Na	589.595	h	H δ	430.175
D $_1$ or d	H α	587.5622	H	Ca	396.847
e	H α	544.813	K	Ca	395.348
E $_1$	Fe	527.659	L	Fe	382.044
h $_1$	Mg	518.342	N	Fe	358.121
h $_2$	Mg	518.379	P	Fe	356.132
h $_3$	Fe	516.891	T	Fe	302.108
h $_4$	Fe	516.891	i	Fe	299.444
h $_5$	Mg	516.733			

Analysis Of Spectral Lines Answers

R.G. Athay



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 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

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

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

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Journal of Research of the U.S. Geological Survey Geological Survey (U.S.), 1974

The Principles of Chemistry Dmitry Ivanovich Mendeleev, 1897

Theory of Stellar Atmospheres Ivan Hubeny, Dimitri Mihalas, 2014-10-26 The most authoritative synthesis of the quantitative spectroscopic analysis of stellar atmospheres This book provides an in depth and self contained treatment of the latest advances achieved in quantitative

spectroscopic analyses of the observable outer layers of stars and similar objects Written by two leading researchers in the field it presents a comprehensive account of both the physical foundations and numerical methods of such analyses The book is ideal for astronomers who want to acquire deeper insight into the physical foundations of the theory of stellar atmospheres or who want to learn about modern computational techniques for treating radiative transfer in non equilibrium situations It can also serve as a rigorous yet accessible introduction to the discipline for graduate students Provides a comprehensive up to date account of the field Covers computational methods as well as the underlying physics Serves as an ideal reference book for researchers and a rigorous yet accessible textbook for graduate students An online illustration package is available to professors at press.princeton.edu

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