



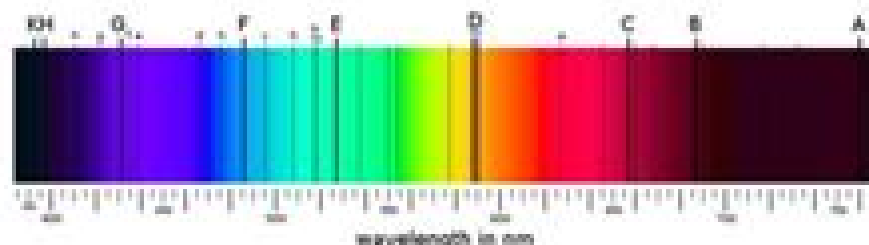
Spectral Analysis

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.



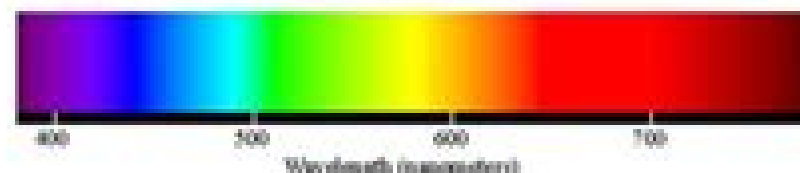
1. What colour is a photon of light with wavelength

- 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	438.335
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

Richard Bailey



Analysis Of Spectral Lines Answers:

Library of Congress Subject Headings Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 **Emission Spectrum Analysis of Atomic Materials**, 1963

Water Resources and Environment Miklas Scholz, 2015-11-17 The 2015 International Conference on Water Resource and Environment WRE2015 aims to provide a platform where scholars from different countries can exchange ideas opinions and views This book is divided into four main themes 1 Hydrology and water resources 2 Water pollution 3 Water treatment methods and 4 Freshwater ecosystems Exploring to *NASA Thesaurus*, 1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved *Vibration and Shock Handbook* Clarence W. de Silva, 2005-06-27 Every so often a reference book appears that stands apart from all others destined to become the definitive work in its field The *Vibration and Shock Handbook* is just such a reference From its ambitious scope to its impressive list of contributors this handbook delivers all of the techniques tools instrumentation and data needed to model analyze monitor modify and control vibration shock noise and acoustics Providing convenient thorough up to date and authoritative coverage the editor summarizes important and complex concepts and results into snapshot windows to make quick access to this critical information even easier The Handbook's nine sections encompass fundamentals and analytical techniques computer techniques tools and signal analysis shock and vibration methodologies instrumentation and testing vibration suppression damping and control monitoring and diagnosis seismic vibration and related regulatory issues system design application and control implementation and acoustics and noise suppression The book also features an extensive glossary and convenient cross referencing plus references at the end of each chapter Brimming with illustrations equations examples and case studies the *Vibration and Shock Handbook* is the most extensive practical and comprehensive reference in the field It is a must have for anyone beginner or expert who is serious about investigating and controlling vibration and acoustics **Frattura ed Integrità Strutturale: Annals 2014** Luca Susmel, John Yates, Alfredo Navarro, Thierry Palin-Luc, 2014-09-12 **Dictionary acoustics** Heinz Weissing, 1992 Das Wörterbuch enthält lt rund 10000 Fachbegriffe je Sprachrichtung und 20000 Übersetzungen aus dem weiten Feld der Akustik Der Wortschatz umfasst die Terminologie aus folgenden Gebieten Physikalische Grundlagen der Akustik Schalleinwirkung auf den Menschen Schallschutz akustische Messtechnik Maschinenakustik und Lärmbekämpfung Bauakustik und Städtebauakustik musikalische Akustik Raumakustik Elektroakustik Ultraschalltechnik Oberflächenwellenakustik Hydroakustik automatische Sprachverarbeitung mechanische Schwingungen **OAR Index of Research Results**, 1967 *Literature 1973, Part 2* Siegfried Böhme, Prof. Dr. Walter Fricke, Ulrich Güntzel-Lingner, Frieda Henn, Dietlinde Krahn, Ute Scheffer, Gert Zech, 2013-10-05 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union

according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 10 contains literature published in 1973 and received before March 15 1974 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouška who surveyed journals and publications in the Czech language and supplied us with abstracts in English and by the Commonwealth Scientific and Industrial Research Organization CSIRO Sydney for providing titles and abstracts of papers on radio astronomy

NASA Technical Memorandum, 1983 **Computer Techniques in Vibration** Clarence W. de Silva, 2016-04-19 Understanding and controlling vibration is critical for reducing noise improving work environments and product quality and increasing the useful life of industrial machinery and other mechanical systems Computer based modeling and analytical tools provide fast accurate and efficient means of designing and controlling a system for improved vibr

Tables of Spectral-line Intensities William Frederick Meggers, 1961 Spectral Line Shapes Christina A. Back, 2002-12-06 This conference is an international forum to discuss fundamental and applied research associated with the formation of spectral line profiles It includes research involving line profiles observed in absorption emission and scattering by laboratory and astrophysical sources The conference brings together specialists from many diverse fields to discuss common aspects of line shape theory and experiments Areas covered in the conference included laser produced plasmas magnetically confined plasmas stellar atmospheres molecular and atomic systems high resolution spectroscopic applications and measurements collision induced effects and ultracold regimes Papers on experiments theory and applications are included in this volume

OAR Quarterly Index of Current Research Results United States. Air Force. Office of Aerospace Research, 1967 *Properties and Testing Techniques of Inorganic Materials II* Yi Wang Bao, Danyu Jiang, Jianghong Gong, 2017-01-13 7th TEIM 2016 Selected peer reviewed papers from the Seventh Annual Meeting on Testing and Evaluation of Advanced Materials April 20-22 2016 Xi'an China *Library of Congress Subject Headings* Library of Congress. Office for Subject Cataloging Policy, 1991

Spectral Line Shapes in Astrophysics and Related Topics Milan S. Dimitrijević, Luka Č. Popović, 2020-02-18 Spectral lines widths and shapes are powerful tools for emitting absorbing gas diagnostics in different astrophysical objects from the solar system to the most distant objects in the universe quasars On the other hand experimental and theoretical investigations of laboratory plasma have been applied in spectroscopic astrophysical research especially in research on atomic data needed for line shape calculations Data on spectral lines and their profiles are also important for diagnostics analysis and the modelling of fusion plasma laser produced

plasma laser design and development and various plasmas in industry and technology like light sources based on plasmas or the welding and piercing of metals by laser produced plasma The papers from this book can be divided into four groups 1 stark broadening data for astrophysical and laboratory plasma investigations 2 applications of spectral lines for astrophysical and laboratory plasma research 3 spectral line phenomena in extragalactic objects and 4 laboratory astrophysics results for spectra investigation The reviews and research papers representing new research on the topics presented in this book are of interest for specialists and PhD students We hope that the present book will be useful and interesting for scientists interested in the investigation of spectral line shapes and will contribute to the education of young researchers and PhD students

Scientific and Technical Aerospace Reports ,1993 **OAR Cumulative Index of Research Results** , **OAR Cumulative Index of Research Results** United States. Air Force. Office of Aerospace Research,1963

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