

Data:

Experiment 6: The Atomic Spectrum of Hydrogen

1. Calculate the Values of the Energy Levels of the Hydrogen Atom

n	Energy, E_n	n	Energy, E_n
1	$-2.18 \times 10^{-18} \text{ J}$	4	$-1.36 \times 10^{-19} \text{ J}$
2	$-5.45 \times 10^{-19} \text{ J}$	5	$-8.72 \times 10^{-20} \text{ J}$
3	$-2.42 \times 10^{-19} \text{ J}$	6	$-6.05 \times 10^{-20} \text{ J}$

2. Calculation of the Wavelengths of the Lines in the Hydrogen Spectrum

In the upper half of each box write the difference in energy between E_{obs} and E_{ref} . In the lower half of the box write the wavelength associated with that value.

$n_{\text{hi}} \downarrow$ $n_{\text{lo}} \rightarrow$	6	5	4	3	2
1	$2.12 \times 10^{-17} \text{ J}$ 94.6 nm	$2.09 \times 10^{-17} \text{ J}$ 95.0 nm	$2.04 \times 10^{-18} \text{ J}$ 97.3 nm	$1.94 \times 10^{-19} \text{ J}$ 103 nm	$1.63 \times 10^{-19} \text{ J}$ 122 nm
2	$4.845 \times 10^{-19} \text{ J}$ 411 nm	$4.578 \times 10^{-19} \text{ J}$ 434 nm	$4.09 \times 10^{-19} \text{ J}$ 486 nm	$3.03 \times 10^{-20} \text{ J}$ 656 nm	
3	$1.815 \times 10^{-19} \text{ J}$ 1095 nm	$1.548 \times 10^{-19} \text{ J}$ 1282 nm	$1.06 \times 10^{-19} \text{ J}$ 1875 nm		
4	$7.55 \times 10^{-20} \text{ J}$ 2633 nm	$4.88 \times 10^{-20} \text{ J}$ 4073 nm			
5	$2.67 \times 10^{-20} \text{ J}$ 7445 nm				

3. Assignment of Lines in the Hydrogen Spectrum

Atomic Spectrum Of Hydrogen Pre Lab Answers

Thomas Griffiths



Atomic Spectrum Of Hydrogen Pre Lab Answers:

Laboratory Experiments for General Chemistry Harold R. Hunt, Toby F. Block, George M. McKelvy, 1998 Nuclear Science Abstracts ,1974 *U.S. Government Research Reports* ,1964 *IGY General Report Series* ,1963 IGY General Report Series World Data Center A.,1963 **Technical Abstract Bulletin** ,1964 **Scientific and Technical Aerospace Reports** ,1986-10 *Nuclear Science Abstracts* ,1974-07 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977 *Energy Research Abstracts* ,1988 **ERDA Energy Research Abstracts** ,1977 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1977 **United States IGY Bibliography, 1953-1960** Library of Congress. Science and Technology Division,1963 U.S. Government Research & Development Reports ,1967 *Government Reports Announcements* ,1974-05 **U.S. Government Research & Development Reports** ,1969 *Physics Briefs* ,1993 Bibliography of Scientific and Industrial Reports ,1968-05 **EPA Publications Bibliography** ,1989 **Chemistry: Po-Z** J. J. Lagowski,2004 This is a reference tool designed to guide the reader through all the aspects of chemistry Showing the myriad of ways in which chemistry plays a role both seen and unseen in our daily lives this work also makes the foundations of chemistry accessible for the lay reader

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Atomic Spectrum Of Hydrogen Pre Lab Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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