

Atomic Emission Spectra

Light, Energy, and Electron Structure



Introduction

Spectrum tubes, fluorescent light bulbs, novelty “plasma globes,” and glowing “neon” signs all have one thing in common—they contain a gas that glows a specific color when a high voltage is applied to it. In this demonstration, this color will be viewed through a Flinn C-Spectra™. It is a holographic diffraction grating that separates, or diffracts, light in the same manner as a traditional ruled diffraction grating. It is ideal for the simple observation of spectral emission lines that make up the observed colors of the glowing gases. The advantage to the C-Spectra is that it can be held at any angle and the emission spectrum can still be easily observed. In Part B, an inexpensive “plasma globe” will be prepared from a Tesla coil and a simple light bulb.

Concepts

- Emission spectra
- Diffraction

Materials

C-Spectra™

Marchionni wire coil

Light bulbs, clean, 60-W, 2

Schematics

Spectrum tube

Spectrum tube power supply

Tesla coil

Safety Precautions

Do not touch the spectrum tube and/or power supply while they are on because the voltage running through it is quite high. When the power supply is turned on, the spectrum tube will become very hot in a short period of time. Turn off the spectrum tube power supply and allow the spectrum tube to cool completely before removing it from the power supply. Do not look directly into the sun through the diffraction grating film.

A Tesla coil produces high-voltage, low-current electricity at a very high frequency. The electric shock produced by the Tesla coil is minimal. However, persons or students with medical conditions (e.g., heart conditions) that may be affected by high voltage electricity should not operate or touch a Tesla coil. The electric sparks will produce a burning, tingling sensation on the skin. Do not spark the same area of skin for more than one or two seconds. A small amount of ozone is produced by the sparks of the Tesla coil. Ozone is toxic by inhalation. Operate the plasma globe in a well-ventilated room. Do not touch the metal base of the light bulb, or the metal coil when the Tesla coil is turned on. A strong electric shock may result. Touch only the glass dome of the light bulb when performing the demonstration. Caution students about the shocking sensation they will feel before they touch the plasma ball. The demonstrator and all observers should wear safety glasses. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information.

Procedure

Part A. C-Spectra

1. Insert the spectrum tube into the spectrum tube power supply. Plug in the spectrum tube power supply and turn it on. Turn off the light.
2. Observe the light being given off by the gas in the tube through the C-Spectra. Look to either side of the spectrum tube to see the emission line spectrum for the gas.

Part B. Plasma Globe

1. Screw the light bulb into the large-diameter opening of the Marchionni coil. See Figure 1a.
2. Slide the smaller-diameter opening of the Marchionni coil over the Tesla coil needle. See Figure 1b.

Atomic Spectra Flinn Chem Topic Lab Answers

H. G. Kuhn



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Proceedings American Society for Engineering Education. Conference, 1989 **Science Citation Index**, 1993 Vols for 1964 have guides and journal lists *Atomic Spectra* R. C. Johnson, 1957 **Atomic Spectra and Atomic Structure** Gerhard Herzberg, 195? Atomic Spectra and Atomic Structure Gerhard Herzberg, J. W. T. Spinks, 1965 Introduction to Atomic Spectra White Harvey Elliott, 1985 **Introduction to Atomic Spectra** Harvey Elliott White, 1934 The Theory of Atomic Spectra Edward Uhler Condon, George Shortley, 1951 **Introduction to Atomic Spectra** Harvey Elliott White, 1989 **Atomic Spectra**, 2020 Introduction to Atomic Spectra Harvey Elliot White, 1999 Atomic Spectra H. G. Kuhn, 1971 *Analytical Atomic Spectroscopy* William Schrenk, 2012-12-06 This textbook is an outgrowth of the author's experience in teaching a course primarily to graduate students in chemistry that included the subject matter presented in this book. The increasing use and importance of atomic spectroscopy as an analytical tool are quite evident to anyone involved in elemental analysis. A number of books are available that may be considered treatises in the various fields that use atomic spectra for analytical purposes. These include areas such as arc spark emission spectroscopy, flame emission spectroscopy, and atomic absorption spectroscopy. Other books are available that can be catalogued as methods books. Most of these books serve well the purpose for which they were written but are not well adapted to serve as basic textbooks in their fields. This book is intended to fill the aforementioned gap and to present the basic principles and instrumentation involved in analytical atomic spectroscopy. To meet this objective, the book includes an elementary treatment of the origin of atomic spectra, the instrumentation and accessory equipment used in atomic spectroscopy, and the principles involved in arc spark emission, flame emission, atomic absorption, and atomic fluorescence. The chapters in the book that deal with the methods of atomic spectroscopy discuss such things as the basic principles involved in the method, the instrumentation requirements, variations of instrumentation, advantages and disadvantages of the method, problems of interferences, detection limits, the collection and processing of the data, and possible applications. *Guide-Lines to Planning Atomic Spectrometric Analysis* B. Magyar, 2012-12-02 *Studies in Analytical Chemistry Volume 4* *Guide Lines to Planning Atomic Spectrometric Analysis* covers the physico-chemical background of atomic absorption spectrometry (AAS) and atomic emission spectrometry (AES). This book is composed of six chapters and begins with an introduction to the criteria on choosing the best and most suitable method for solving a given analytical problem. The next chapters deal with the properties, generation, and absorption of electromagnetic radiation as well as the theory of atomic spectra that require knowledge of X-ray. Other chapters discuss the broadening of atomic lines, which is important for understanding that calibration curves in AAS are always bent. A chapter examines the sensitivity of determination by AAS and AES. The last chapter describes the spectrometric measurement of atomic absorption and emission. This chapter also looks into the influence of the design of the monochromator upon the measured emission intensity and calibration curve by AAS. This book will prove useful to analytical chemists and researchers.

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The Theory of Atomic Spectra E. U. Condon,G. H. Shortley,1985

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Atomic Spectra Tim P. Softley,2023 The text starts off by looking at quantum mechanics and the relationship of quantum mechanics with light The next chapter considers the structure and spectrum of the hydrogen atoms The text also covers the spectrum of the helium atom Finally the text examines the spectra of many electron atoms

Atomic Spectra and the Vector Model A. C. Candler,2015-05-21 Originally published in 1937 this book is the second of two volumes discussing the spectra of the various atomic elements Volume Two addresses complex spectra including rare earths and fluorescent crystals This book will be of value to anyone with an interest in the history of science

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