

Atomic Emission Spectra Lab with Key

Teacher Notes

This lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom. The lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

Use this lab as a demonstration or as a student activity. The lab is designed to be a fun, hands-on activity for students. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

Be careful handling the gas tubes. Only touch them off the burner and not the burner itself. They can get very hot. Do not touch them if they are glowing. Do not touch them if they are glowing.

You can also use this lab as a student activity. It is a great way to introduce the concept of atomic emission spectra and the Bohr model of the atom.

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1. The atomic emission spectra of hydrogen, helium, and neon are shown below. The spectra are shown in the order of increasing atomic number.

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Gas Sample	Observed Emission Lines	Observed Wavelengths (nm)
Hydrogen (H ₂)	4 visible lines (violet, blue-violet, blue-green, red)	410.1, 434.0, 486.1, 656.3
Helium (He)	5 visible lines (violet, blue-violet, blue, green, red)	402.6, 468.6, 504.8, 587.6, 667.8
Neon (Ne)	10 visible lines (violet, blue-violet, blue, green, yellow, orange, red)	444.1, 479.8, 505.0, 540.1, 588.2, 626.5, 644.2, 671.7, 703.4, 780.0

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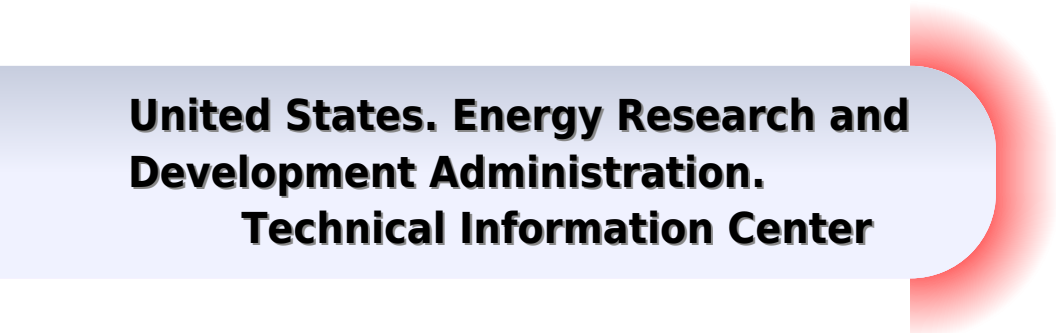
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to Space Joseph Reader, 2018-05-04 This book is a printed edition of the Special Issue Spectra of Ionized Atoms From Laboratory to Space that was published in *Atoms* **Undergraduate Instrumental Analysis** Thomas J. Bruno, James W. Robinson, George M. Frame II, Eileen M. Skelly Frame, 2023-07-31 Analytical instrumentation is crucial to research in

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Electro-optic, Integrated Optic, and Electronic Technologies for Online Chemical Process Monitoring Mahmoud Fallahi,Robert J. Nordstrom,Terry R. Todd,1999 This collection of papers covers a wide range of issues and topics relevant to electro optic integrated optic and electronic technologies for online chemical process monitoring

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primarily in humans but also those of animals and biological systems in vitro The fourth edition also contains several new chapters on important topics such as nanotoxicology metals in prosthetics and dental implants gene environment interaction neurotoxicology metals in food renal cardiovascular and diabetes effects of metal exposures and more Volume I covers General Considerations and Volume II is devoted to Specific Metals A multidisciplinary resource with contributions from internationally recognized experts the fourth edition of the Handbook on the Toxicology of Metals is a prominent and indispensable reference for toxicologists physicians pharmacologists engineers and all those involved in the toxicity of metals Contains 61 peer reviewed chapters dealing with the effects of metallic elements and their compounds on biological systems Includes information on sources transport and transformation of metals in the environment and on certain aspects of the ecological effects of metals to provide a basis for better understanding of the potential for adverse effects on human health Covers the toxicology of metallic nanomaterials in a new comprehensive chapter Metal toxicology in developing countries is dealt with in another new chapter emphasizing the adverse effects on human health by the inadequate handling of ewaste Other new chapters in the 4th edition include Toxic metals in food Toxicity of metals released from medical devices Gene environment interactions Neurotoxicology of metals Cardiovascular disease Renal effects of exposure to metals Gold and gold mining Iridium Lanthanum Lithium and Rhodium

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