

Flame Test Lab

Activity Key

Background

The heat from a laboratory burner will cause the ions of some elements to give off light. Electrons will absorb the heat energy from the flame and will “jump” to a higher energy level. When the electrons return to their original energy levels, this absorbed energy is released as light. Different elements absorb and release different amounts of energy and thus produce different kinds of light. This light may be visible or invisible, infrared or ultraviolet radiation. Analysis of this light can be used to identify elements and molecules. In today’s lab, we will observe the visible range of light emission.

Objectives

1. Perform a flame test to identify the characteristic color of metal ions.
2. Identify the metal ion in an unknown solution.
3. Calculate the energy of emitted photons.

Materials: (per lab group)

10 ml dilute solutions of the following:

Barium Chloride
Calcium Chloride
Lithium Chloride
Potassium Chloride
Sodium Chloride
Strontium Chloride
Unknown Solution

7 Wood Splints

1 Bunsen Burner

Safety Goggles & Aprons

Note:

If chloride compounds are not available, metal nitrate compounds may be substituted.

Use dilute or approximately 0.1 M solutions

Unknowns:

Number the beakers 1-12.

Add solutions as follows:

1. Strontium Chloride

2. Calcium Chloride

3. Potassium Chloride

4. Barium Chloride

5. Lithium Chloride

6. Sodium Chloride

7. Calcium Chloride

8. Strontium Chloride

9. Barium Chloride

10. Potassium Chloride

11. Sodium Chloride

12. Lithium Chloride

Procedure

1. Put on your safety goggles and an apron.
2. Obtain a wood splint and the barium chloride solution.
3. Dip the wood splint into the solution and allow it to soak for 1-2 minutes.
4. Light Bunsen Burner. USE CAUTION!
5. Remove the splint from the solution and hold the end of the splint into the flame. Do not burn the splint.
6. Observe and record the color of the flame.
7. Repeat steps 2-6 using the remaining chloride solutions.
8. Obtain an unknown solution from your teacher. Record the number of your unknown.
9. Soak a wood splint in the unknown solution.
10. Hold the splint in the flame and record the color of the flame that is produced.
11. Using your data, identify the metal ion in your unknown solution.

Flame Test Lab Answer Key

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Flame Test Lab Answer Key:

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Teacher Personal Theorizing Gail MacCutcheon, 1992-01-01 This book examines the relationship between teacher

theorizing and teacher action as illustrated by the curricular and instructional practices of teachers. The authors show that all teaching is guided by theory developed by the teachers. Teachers could not begin to practice without some knowledge of the context of their practice and without ideas about what can and should be done in those circumstances. In this sense teachers are guided by personal practical theories that structure their activities and guide them in making decisions. This literature is very significant in explaining and interpreting many phenomena of schooling such as why teachers alter curriculum documents and other policies, how inservice education can be improved, how supervisors can help teachers to improve their practices, and how administrators can become leaders to improve education. This perspective has broad and specific implications for every facet of education. Those interested in teacher education and development in supervision in curriculum and in administration will find it especially relevant.

Who's the New Kid in Chemistry? John D. Butler, 2013-12-12. *Who's the New Kid in Chemistry* offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student. Over the course of seventy-nine consecutive days, John D. Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M. Waters's high school chemistry class, documenting his experiences as they unfold. *Who's the New Kid in Chemistry* is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom. This work includes a discussion on flexible homework assignments, data-driven instruction, and thirty teacher best practices. This book is an invaluable resource for teachers across all content areas, masters and doctoral research method classes, and future Teachers of the Year.

Gourmet Lab Sarah Reeves Young, 2011. Hands-on inquiry-based and relevant to every student's life, *Gourmet Lab* serves up a full menu of activities for science teachers of grades 6-12. This collection of 15 hands-on experiments, each of which includes a full set of both student and teacher pages, challenges students to take on the role of scientist and chef as they boil, bake, and toast their way to a better understanding of science concepts from chemistry, biology, and physics. By cooking edible items such as pancakes and butterscotch, students have the opportunity to learn about physical changes in states of matter, acids and bases, biochemistry, and molecular structure. The Teacher pages include Standards addressed in each lab, a vocabulary list, safety protocols, materials required, procedures, data analysis, student questions, answer key, and conclusions and connections to spur wrap-up class discussions. Cross-curricular notes are also included to highlight the lesson's connection to subjects such as math and literacy. Finally, optional extensions for both middle school and high school levels detail how to explore each concept further. What better topic than food to engage students to explore science in the natural world?

Matter, Building Block of the Universe, 1993. **Science**, 2001. **Practical Chemistry Labs** Leonard Saland, 1989. Features self-contained step-by-step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry. Illustrates the connection between the real world and chemistry concepts such as solutions, chemistry, acids and bases, and more. Includes teacher notes, quizzes, and answers to help monitor student

progress Gunky's Adventures Jim Reuther,2019-08-06 A few days after the passing of his beloved wife author Jim Reuther better known as Gunky discovered her extraordinary letter in a handwritten notebook titled How to Get Along Without Me The notebook was a simple How to Guide for the tasks she had done faithfully for him until the end But one request stood out she challenged him to continue his writings In Gunky s Adventures Reuther features a collection of twenty five tales one for each letter of the alphabet beginning with his late wife s note Afterlife Love Letter and Wish Ranging from the humorous to tear jerkers to odd happenings and surprise endings to musings on rock and roll to stories about family friends foes and fails he reflects on an array of life experiences His first poems ever written are included under the title of Xtraordinaire Silent Sentinels Narrating a life hearted series of alphabetic escapades Gunky s Adventures offers an anthology of poems and short stories reflecting on a life wonderfully lived **English Communication for International Teaching Assistants** Greta

Gorsuch,Colleen M. Meyers,Lucy Pickering,Dale T. Griffiee,2016-08-26 In order to become successful communicators in undergraduate teaching environments in the United States nonnative English speaking graduate students require hands on and relevant practice Now in its second edition English Communication for International Teaching Assistants continues to provide constructive insights and versatile tools to facilitate such learning The authors convey the principals of cross cultural awareness within the classroom and emphasize the importance of discourse intonation in building rapport conveying meaning and structuring information The accompanying CD includes audio and video recordings of real teaching settings that can be examined and dissected for successful discourse intonation practices Dozens of applied exercises interactive tasks and skills building problems address communication proficiencies and deficiencies Readers will transcribe and evaluate their own conversations in order to acquire strategies to become more effective speakers and to resolve communication breakdowns with undergraduate students As a valuable tool the ITA Performance Test is included along with its developmental theory and guidelines for its use **Laboratory Manual for Chemistry** Karen C. Timberlake,1976

Laboratory Test Handbook with Key Word Index David S. Jacobs,1988 Naval Aviation News ,1955 **Plastics in Building Structures** D. S. Mahon,J. C. Barford,W. Dawson,2013-09-11 Plastics in Building Structures covers the proceedings of a conference held in London on June 14 16 1965 This conference focuses on the applications of plastics materials in structures This book emerged from 39 papers presented at the conference The introductory papers describe the properties of plastics in relation to building structures and the economic aspects fire regulations and flammability of these materials Considerable papers are devoted to various areas of application of plastics including adhesives polymer cements cored chipboard units and glued timber These topics are followed by discussions on the characterization design and structural and physical properties of plastics The final chapters review the commercial development and applications of plastic materials This book will prove useful to engineers designer manufacturers and researchers in the allied fields

Principles of Wood Science and Technology Franz F.P. Kollmann,Wilfred A.Jr. Cote,2012-12-06 Modern forest

products research had its start hardly fifty years ago Today we are in a position to apply the title wood science to the field of wood technology that is based on scientific investigation theoretical as well as experimental It is this research that fosters new uses for wood as a raw material and that creates the foundation for new industries for the manufacture of wood base materials such as plywood laminated products particle and fiber board and sand wich construction Wood technology in its broadest sense combines the disciplines of wood anatomy biology chemistry physics and mechanical technology It is through this interdisciplinary approach that progress has been made in wood seasoning wood preservation methods wood machining surfacing and gluing and in the many other processes applied in its utilization In 1936 the senior author published a book entitled Technologie des Holzes which was a first approach to a universal reference book on wood technology The first edition of Volume I of the Textbook of Wood Technology co authored by H P BROWN A J P AN SHIN and C C FORSAITH was published in 1948 An indication of the rapid development of this field can be gained from the fact that the second edition of Technologie des Holzes und der Holzwerkstoffe completely revised was needed by 1951 It contains 2233 pages compared with the 764 pages of the 1936 edition *Side Impact Padding Integration Study. Final Report* Michael W. Monk,1981

Popular Science ,2004-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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web untuk itu kita harus men stop putaran motor terlebih dahulu sebelum membalik arah putarannya berikut ini adalah gambar rangkaian kendali dan rangkaian daya dari pembalikan arah putaran motor induksi tiga fasa gambar rangkaian kendali gambar rangkaian daya penjelasan rangkaian di atas adalah sebagai berikut

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web jan 4 2017 untuk membalik arah putaran motor dc dapat dilakukan dengan 2 cara 1 membalik arah arus jangkar arah arus penguat tetap 2 membalik arah arus penguat arah arus jangkar tetap apabila arus arah jangkar dan arah arus penguat keduanya dibalik arah putaran motor tidak berubah

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web untuk merubah arah putaran dapat digambarkan secara teori sebagai berikut gambar di atas menjelaskan bahwa untuk bisa membalik putaran sebuah motor induksi harus dilakukan dengan cara membalik polaritas lilitan utama saat kita membongkar sebuah motor pompa air kecil akan terlihat seperti berikut kalau nyambung ke teori akan agak

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web teori membalik putaran motor listrik 1 fasa sama halnya dengan motor listrik 3 fasa yaitu dengan dengan cara membalik arah fluksi magnet pada kumparan statornya secara praktek untuk membalik motor listrik 1 fasa yaitu membalik arah kumparan utama terhadap kumparan bantu atau sebaliknya untuk jelasnya dapat di lihat pada gambar

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web apr 24 2020 membalik putaran pada motor pada dasarnya adalah menggeser urutan fasa dari r s t menjadi t s r atau yang lainnya maka wajib diperhatikan urutan fasa pada sumber listrik yang akan dipakai membalik putaran diperlukan karena tidak semua peralatan yang menggunakan motor listrik harus berputar ke kanan saja forward atau

belajar rangkaian kendali motor listrik 3 fasa - Jun 07 2022

web dalam rangkaian kendali motor listrik 3 fasa kita akan di perkenalkan dengan sebuah listrik yaitu 3 fasa loh jenis listrik apa lagi tuh dalam menghidupkan motor listrik 3 fasa kita membutuhkan bukan 1 fasa tapi 3 fasa tanpa netral bagaimana sistem kelistrikannya

cara merubah arah putara motor listrik satu phase tptumetro - Nov 12 2022

web sebuah motor listrik satu phase yang dirangkai seperti gambar di atas maka motor listrik akan berputar searah sebagai contoh di atas putaran motor listrik ke arah kanan jika akan merubah arah putaran motor listrik satu phase maka kita harus merubah rangkaian di

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web untuk itu kita harus men stop putaran motor terlebih dahulu sebelum membalik arah putarannya berikut ini adalah gambar rangkaian kendali dan rangkaian daya dari pembalikan arah putaran motor induksi tiga fasa

cara membalik putaran motor induksi 3 fasa forward reverse - Oct 11 2022

web oct 3 2013 untuk mengubah atau membalik polaritas tegangan rst itu biasanya digunakan rangkaian pengendali mekanik dan magnetik yaitu rangkaian kontaktor dan sebagai pengaman motor dipasang juga pelindung motor thermal overload perhatikan gambar diagram utama daya forward reverse berikut ini rangkaian daya forward reverse

rangkaiannya utama pembalik putaran motor listrik 3 fasa - Aug 21 2023

web paling mudah untuk membalik putaran motor listrik adalah dengan membalik atau menukar salah satu line input dari sumber listrik yang 3 fasa ke line atau phase yang lainnya menuju ke lilitan stator motor listrik untuk lebih jelas berikut skema rangkaian daya forward reverse 1 putaran arah maju forward

rangkaiannya membalik putaran motor 3 fasa forward reverse - Jul 20 2023

web rangkaian membalik putaran motor 3 fasa forward reverse motor listrik adalah alat yang memanfaatkan merubah energi listrik menjadi energi gerak putaran dengan prinsip induksi magnetik motor listrik yang bisa digunakan ada dua jenis yaitu motor listrik ac menggunakan sumber listrik bolak balik pln dan motor listrik dc menggunakan

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web laporan resmi praktikum membalik arah putaran motor induksi 3 fasa mata kuliah praktikum mesin listrik dosen pembina dr joko m pd m t praktikum ke 3 kelompok 5 ria mufaidah 15050514028 syafi ul arif 15050514030 bagus dwi ardiyansyah 15050514050 baghas elmo 15050514067 muhammad arianto

membalikan arah putaran motor listrik 3 fasa - Jan 14 2023

web dalam hal ini jenis motor yang digunakan adalah motor induksi tiga fasa akan membahas tentang rangkaian kendali dan rangkaian daya dari pembalikan arah putaran dari sebuah motor induksi tiga fasa

pembalik arah putaran motor dc crowds - Sep 10 2022

web untuk mengubah putaran dari sebuah motor dapat dilakukan dengan mengubah arah arus yang mengalir melalui motor tersebut pada awalnya motor berputar searah jarum jam kemudian dengan membalik polaritas tegangan yang diberikan maka motor akan berubah arah putarannya

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