

Introduction:

The laboratory method used in the experiment is titration. Titration is a method used in measuring the amount of an analytical reagent necessary to react quantitatively with the sample. Acid-base titrations are important for counting concentrations of acids and bases. The point at which the equivalence point has been reached is called the theoretical end point. The titration is detected by some physical change, such as colour change, to indicate the end point. The indicator solution used in this experiment is phenolphthalein which is a colourless in acidic solution. When the reaction reached the endpoint, the solution becomes pale pink. One or two drops of phenolphthalein are sufficient for the titration. Addition of too much indicator will necessitate an indicator blank. The indicator should give a clear visual change in the liquid being titrated once the reaction between the standard solution and the substance is practically complete. The indicators can change colour because their ions have colours that are different from the undissociated molecule (Tan, 2010). The acid and base titrations used the Arrhenius theory. This theory stated that acid are substance which produce hydrogen ions in solution and bases are substance which produce hydroxide ion in solution. In titration, standard solutions are now usually expressed in terms of molarity, M.

Molarity, M = moles of solute/volume of solutions in litres

Objective :

One of the purposes of this experiment is to demonstrate the basic laboratory technique of titration towards the students. This experiment enables a hand-on practice done by the students themselves. Thus, the students will know how to handle the materials, apparatus and the correct way to conduct the experiment as well as being careful to avoid any experimental error. Moreover, this experiment also teach the students on the correct steps to calculate percentage of substance, molarity of solution and other calculations involve throughout the experiment.

Apparatus :

Burette with stand
Pipette
1-L volumetric flask with stopper
250 mL Erlenmeyer flasks
Retort stand with clamp

Reagents :

Sodium hydroxide pellets
Potassium hydrogen phthalate (KHP)
Phenolphthalein
Unknown vinegar

Sample Introduction Lab Report

**Lloyd R. Snyder, Joseph J. Kirkland, John
W. Dolan**



Sample Introduction Lab Report:

How to Write a Lab Report Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose reports that emphasize structure and content to persuade the readers It first covers basic principles then explores each section of a report step by step with sample report sections and critiques The Laboratory Report Writing Process Principles of Clear Lab Report Writing Rules of Practice for Lab Report Writing Graphics The Title Page and Table of Contents The Beginning of the Report The Body of the Report The Ending of the Report A Sample Student Lab Report For anyone who must write lab reports as part of their professional responsibilities Laboratory Tests on Samples from Borrow Area D (appendix 2 Added), Keene Creek Dam, Rogue River Project, Oregon ,1957 *Introduction to Experimental Methods* Terry W. Armstrong, 2023-07-31 Introduction to Experimental Methods succinctly explains fundamental engineering concepts in mechanics dynamics heat transfer and fluid dynamics From conceptualizing an engineering experiment to conducting a comprehensive lab this book enables students to work through the entire experimental design process Offering a complete overview of instruction for engineering lab methodology the book includes practical lab manuals for student use directly complementing the instruction Numerous worked examples and problems are presented along with several hands on experiments in individual lab manuals This book discusses how to write lab reports how to configure a variety of instruments and equipment and how to work through failures in experimentation Introduction to Experimental Methods is intended for senior undergraduate engineering students taking courses in Experimental Methods Instructors will be able to utilize a Solutions Manual for their course Features Provides an overview of experimental methods in mechanics dynamics heat transfer and fluid dynamics Covers design of experiments instruments and statistics Discusses SolidWorks and PASCO Capstone software Includes numerous end of chapter problems and worked problems Features a Solutions Manual for instructor use *Laboratory Studies for Final Design on Embankment Soils Proposed for Joes Valley Dam, Emery County Project, Utah* Willard Ellis, 1963 **Laboratory Tests on Embankment Materials Proposed for Stanaker Dam, Vernal Unit, Central Utah Project** ,1958 **A Strategic Guide to Technical Communication - Second Edition (US)** Heather Graves, Roger Graves, 2012-05-23 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to enable them to create aesthetically appealing and usable technical documentation These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions The second edition adds a chapter on business communication reworks the discussion on technical style and expands the information on visual communication and ethics into free standing chapters The text is accompanied by a passcode protected website containing materials for instructors PowerPoint lectures lesson plans sample student work and helpful links *Laboratory Tests on Earth Samples from the East Borrow Area, Alamogordo Dam*

Rehabilitation, Carlsbad Project, New Mexico ,1954

Creek Barrier Dam, Paria River Basin, Utah ,1959

Laboratory Tests on Proposed Embankment Materials, Sheep

Introduction to Modern Liquid Chromatography Lloyd R.

Snyder, Joseph J. Kirkland, John W. Dolan, 2011-09-20 The latest edition of the authoritative reference to HPLC High performance liquid chromatography HPLC is today the leading technique for chemical analysis and related applications with an ability to separate analyze and or purify virtually any sample Snyder and Kirkland s *Introduction to Modern Liquid Chromatography* has long represented the premier reference to HPLC This Third Edition with John Dolan as added coauthor addresses important improvements in columns and equipment as well as major advances in our understanding of HPLC separation our ability to solve problems that were troublesome in the past and the application of HPLC for new kinds of samples This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience The text begins by introducing the reader to HPLC its use in relation to other modern separation techniques and its history then leads into such specific topics as The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column the heart of the HPLC system Reversed phase separation normal phase chromatography gradient elution two dimensional separation and other techniques Computer simulation qualitative and quantitative analysis and method validation and quality control The separation of large molecules including both biological and synthetic polymers Chiral separations preparative separations and sample preparation Systematic development of HPLC separations new to this edition Troubleshooting tricks techniques and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users from novices to experts *Introduction to Modern Liquid Chromatography Third Edition* offers the most up to date comprehensive and accessible survey of HPLC methods and applications available

Laboratory Tests on Embankment Material, Palo Verde Diversion Dam, California ,1954

Laboratory Tests on Foundation Materials, Two Proposed Detention Dams, Stations 1936+00 and 1963+50, Meeker Extension Canal, Missouri River Basin Project, Nebraska ,1957

Laboratory Tests on Blended Earth-lining Materials for Helena Valley Canal and Proposed Borrow Material for Helena Valley Regulating Reservoir, Helena-Great Falls Division, Helena Valley Unit, Missouri River Basin Project, Montana

,1957 **Laboratory Tests for Feasibility Design on Embankment and Bank Stabilization Materials Proposed for**

Senator Wash Dam, Colorado River Front Works and Levee System, California G. DeGroot, 1962 **An Introduction to Biostatistics** Thomas Glover, Kevin Mitchell, 2015-06-29

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are Concept Checks short questions that allow readers to immediately gauge their mastery of the topics presented. Regardless of mathematical background all readers will appreciate the value of statistics as a fundamental quantitative skill for the life sciences.

Laboratory Studies on Proposed Embankment and Lining Materials, Equalizing Reservoir P-28R, Weber Aqueduct Lateral System, Uintah Bench, Weber Basin Project, Utah, 1957 Laboratory Tests of Embankment Materials Proposed for Paonia Dam, Paonia Project, 1958 *Successful Lab Reports* Christopher S. Lobban, MarLa Schefter, 1992-02-28 Shows science students how to write a clear and to the point laboratory report A Strategic Guide to Technical Communication - Second Edition (Canadian) Heather Graves, Roger Graves, 2011-12-20 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to create aesthetically appealing and usable technical documentation. These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions. The second edition adds a chapter on business communication, reworks the discussion on technical style and expands the information on visual communication and ethics into free standing chapters. Particular attention is paid throughout to the needs of Canadian students.

Teaching Science Online Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught. Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity, collaborative opportunities and feedback as well as for increasing access for students. This book presents the guidance of expert science educators from the US and from around the globe. They describe key concepts, delivery modes and emerging technologies and offer models of practice. The book places particular emphasis on experimentation, lab and field work as they are fundamentally part of the education in most scientific disciplines. Chapters include Discipline methodology and teaching strategies in the specific areas of physics, biology, chemistry and earth sciences. An overview of the important and appropriate learning technologies, ICTs for each major science. Best practices for establishing and maintaining a successful course online. Insights and tips for handling practical components like laboratories and field work. Coverage of breaking topics including MOOCs, learning analytics, open educational resources and m learning. Strategies for engaging your students online.

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